

BENCH SCALE TREATABILITY STUDY

PREPARED FOR:

**Chevron Perth Amboy Refinery
Perth Amboy, NJ**

PREPARED BY:



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REVISION O

May 19, 2007

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1.0 Introduction

1.1 Purpose of Treatability Study

The purpose of the treatability study is to select the appropriate stabilization method and operational approach to meet the objectives of the scope of the remediation. The requirement for stabilization is driven by the need to treat, excavate, and dispose of the lead-impacted materials as non-hazardous soil. As such the primary goal of this study is to determine a reagent or reagent blend capable of producing lead leachability results of less than 5 mg/l TCLP.

Reagent candidates were selected based on past experience. Each reagent selected was independently tested to determine the most effective stabilization options for each.

2.0 Bench Scale Testing

2.1 Sample Collection and Preparation

On November 7, 2007 samples were collected from various locations at the Perth Amboy Refinery; sample S1016 was collected in the main yard between tanks 300, 301, 326, and 327, sample S2249 was collected in the main yard between concrete pad and surge pond, sample S2197 was collected in the main yard bulk station, and also sample S3287 was collected in the east yard. These samples were packaged onsite and shipped to the ENTACT Treatability Lab in Houston, Texas.

Table 1 – Summary of Soil Sample Locations

Chevron ID	Sample Location	Sample Location Coordinates		Chemical of Concern Concentration		Depth (ft. bgs)	Rational for Bench Test Sample Location
		Easting	Northing	Benzene	Lead		
S1016	Main Yard – SWMU 18 (between tanks 300, 301, 326, and 327)	557479.34	621696.19	26,000		3.5-4.0	Highest benzene concentration at the refinery
S2249	Main Yard – SWMU 43 (between concrete pad and surge pond)	557009.90	622479.01	82		8.5-9.0	Highest benzene concentration in SWMU43
S2387	East Yard – SWMU 8	560142.25	620623.36		176,000	11.5-12.0	Highest lead concentration at the refinery
S2197	Main Yard – Bulk Station	558205.95	620705.07		20,500	3.5-4.0	Highest lead concentration in the Main Yard

The samples were homogenized to ensure full distribution and consistency within the sample material. A portion of the homogenized material was then placed in containers and sent to Accutest Laboratories for analysis. The untreated soil samples were analyzed for both Total and TCLP levels of lead. Two of the samples were also tested for benzene levels and the possible treatment through low temperature thermal desorption (LTTD).

URS sent additional soil sample cores to the ENTACT Treatability Lab in Houston, Texas. When the samples arrived they were removed from the core cylinders and placed in 5 gallon buckets, 1 bucket for each sample location. Samples were collected from the Main yard bulk station and given the sample ID S2197RB2, and also from the East yard and given the sample ID S2387RF4. URS also sent samples from these locations to Lancaster Laboratories to be analyzed.

Figure 1: Material Homogenization



The sediments from the additional samples were homogenized to ensure similar composition throughout and to redistribute the moisture full distribution and consistency within the sample material. A portion of the homogenized material was then placed in containers and sent to Accutest Laboratories for analysis. The untreated soil samples were analyzed for Total lead, TCLP, TEL, VOC's, and moisture content. Additional material was also extracted from each sample and evaluated for moisture content and bulk density.

Table 2 – As Recieved Moisture and Bulk Density

Material	Moisture/Water Content	Bulk Density (pcf)
S2197RB2	12.42% / 11.05%	99.08
S2387RF4	33.23% / 24.94%	113.99

Bulk density represents material loosely compacted, as would exist when stockpiled. Worksheets for Moisture and Bulk Density for these samples are provided in the Appendix A.

2.2 Initial Chemical Testing Results

The analysis of the raw material provided a starting point to begin treatability design and also furnished a baseline to compare the chemical effects resulting from various reagent admixtures at varying dosages and concentrations. The raw soil lead leachability concentrations (mg/l) were identified as areas of the highest interest in samples S2197RB2 and S2387RF4. The complete laboratory analyses for the raw soils from Perth Amboy are included in Appendix A. The results of the initial raw soil analyses for lead are summarized as follows:

Table 3 – Initial Sample Results

Results of Raw Sample Analysis			
Sample ID	Analyte	Results (mg/l)	Method
S1016-Raw	Lead	0.98	SW846 1311
S2249-Raw	Lead	<0.50	SW846 1311
S2387-Raw	Lead	3.1	SW846 1311
S2197-RAS	Lead	1.6	SW846 1311
S2197RB2	Lead	11.7	SW846 1311
S2387RF4	Lead	1240	SW846 1311

2.3 Bench Treatment Plan

In order to treat the levels of lead in the main yard and east yard materials several reagents were added to each sample in varying percentages based on wet unit weight. Three different reagents were used; Tri-Sodium Phosphate (TSP), Enviroblend 80/20 from Premier Chemicals, and Redoxite from Redox Solutions.

REAGENT	DRY ADDITION RATES (by Weight)
EnviroBlend 80/20	5% - 7.5% - 10%
Tri-Sodium Phosphate	5% - 10%
Redoxite	5% - 10%

2.3 SAMPLE MIXING

After the reagent candidates were selected, sample mixing was initiated. In order to ensure similar mixing results for each sample, a standardized mix regime was followed. This included the following steps.

Procedure for Dry-Addition Reagent Methods

This bench scale process is intended to model the mixing effects of dry reagent addition in the field with excavator-based mixing.

Material Homogenization – verify the material remains homogenized, has no layering, or separation of water. If necessary, re-mix the untreated sample to remove any inconsistency in the material.

Sample Aliquot Preparation – collect enough material to provide for analytical lab requirements. For a full-suite of lab analysis, one (1) 8 oz jar will need to be prepared.

Sample Aliquot Weighing – using appropriate tare for the container, determine the weight to the nearest gram of the raw material sample. The expected quantity to produce the appropriate samples will be 500g – 1200g, dependent on the material type.

Reagent Weighing – calculate require reagent on a weight-per-weight basis. Using appropriate container tare, measure the reagent necessary to produce the addition rate for the sample material.

Dry Mixing – in the mixing bowl, using a Kitchen-Aid blender to simulate mixing in the field. Continue to mix the material until the visual consistency suggests the mixture of the reagent is complete and consistent.

Analytical Sample Preparation – place roughly 200g of material into the 8 oz glass jars and seal for laboratory analysis. Label sample jar with sample number and mix information.

Figure 2: Mixing Process



The bench trials were prepared as follows:

Table 4 – Lead Reduction Reagent Trials

Sample Number	Sample Material	Reagent
S2387RF4-TSP5-41408	1128g	56.4g
S2387RF4-TSP10-41408	1048g	104.8g
S2387RF4-Enviroblend5-41408	456g	22.8g
S2387RF4-Enviroblend10-41408	470g	22.4g
S2197RB2-TSP5-41408	554g	27.7g
S2197RB2-TSP10-41408	664g	66.4g
S2197RB2-Enviroblend5-41408	506g	25.3g
S2197RB2-Enviroblend7.5-41408	408g	30.6g
S287RF4-Redox5-42308	574g	28.7g
S287RF4-Redox10-42308	456g	45.6g
S2197RB2-Redox5-42308	498g	24.9g
S2197RB2-Redox10-42308	492g	49.2g

Once the samples were adequately mixed, they were sent to Landcaster Laboratories and analyzed for Total Lead, TCLP, TEL Lead for a 10 day turnaround.

Figure 3: Sample Containers



2.5 Treatment Results

The Perth Amboy material sample results are shown in **Table 5**. The Enviroblend and TSP products are both phosphate-based compounds for lead solubility reduction or fixation, whereas the Redoxite is an Iron Sulfide compound for lead solubility reduction.

Table 5 – Treated Material, TCLP Results (mg/l)

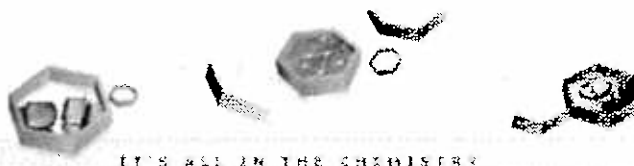
Sample	Enviroblend (80/20)			TSP		Redoxite	
	5%	7.5%	10%	5%	10%	5%	10%
S2197RB2	ND	ND		ND	0.0141	49.5	257.
S2387RF4	0.740		1.07	271	0.155	2,730	67,200

3.0 Conclusions

Enviroblend (80/20) at 5% and 7.5% dosages, applied as a function of bulk unit weight, is capable of reducing the leachability of lead to below 5 mg/l. TSP is also successful at addition rates of 5% and 10% in achieving leachability results for lead below the targeted value of 5 mg/l. Redoxite was not successful at 5% or 10%.

Given these results, the recommended dosages of either TSP or Enviroblend (80/20) will be up to 5% by bulk unit weight. Perhaps lower dosages can be achieved, with additional testing required to confirm, based on the extremely low levels indicated by the 5% results.

APPENDIX A: INITIAL CHEMICAL TEST RESULTS



12/27/07

Technical Report for

Entact Houston

Chevron, Perth Amboy

CVX 108

Accutest Job Number: J78054

Sampling Date: 12/03/07

Report to:

Entact Houston
699 South Friendswood
Suite 100
Friendswood, TX 77546

ATTN: Mike Porter

Total number of pages in report: 131



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Entact Houston

Job No: J78054

Chevron, Perth Amboy
Project No: CVX 108

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J78054-1	12/03/07	16:10 MP	12/04/07	SO	Soil	S1016-RAW
J78054-1A	12/03/07	16:10 MP	12/04/07	SO	Soil	S1016-RAW
J78054-2	12/03/07	16:15 MP	12/04/07	SO	Soil	S2249-RAW
J78054-2A	12/03/07	16:15 MP	12/04/07	SO	Soil	S2249-RAW
J78054-3	12/03/07	16:20 MP	12/04/07	SO	Soil	S2387-RAW
J78054-3A	12/03/07	16:20 MP	12/04/07	SO	Soil	S2387-RAW
J78054-4	12/03/07	16:25 MP	12/04/07	SO	Soil	S2197-RAS
J78054-4A	12/03/07	16:25 MP	12/04/07	SO	Soil	S2197-RAS

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY**Client:** Entact Houston**Job No** J78054**Site:** Chevron, Perth Amboy**Report Date** 12/27/2007 10:45:08 A

On 12/04/2007, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 20.8 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of J78054 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6010B**Matrix:** LEACHATE**Batch ID:** MP41826

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J77710-1MS, J77710-1MSD, J77710-1SDL were used as the QC samples for metals.

Matrix: SO**Batch ID:** MP42010

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J78673-8MSD, J78673-8SDL, J78673-8MS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Lead are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Lead are outside control limits. Probable cause due to matrix interference and/or sample nonhomogeneity..
- J78054-4 for Lead: Elevated detection limit due to dilution required for high interfering element.

Wet Chemistry By Method EPA 160.3 M**Matrix:** SO**Batch ID:** GN10153

- The data for EPA 160.3 M meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover



IT'S ALL IN THE CHEMISTRY

Section 3



Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

Client Sample ID: S1016-RAW

Lab Sample ID: J78054-1

Matrix: SO - Soil

Project: Chevron, Perth Amboy

Date Sampled: 12/03/07

Date Received: 12/04/07

Percent Solids: 56.0

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	573	3.4	mg/kg	1	12/21/07	12/22/07 RP	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA20282

(2) Prep QC Batch: MP42010

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: S1016-RAW

Lab Sample ID: J78054-1A

Matrix: SO - Soil

Project: Chevron, Perth Amboy

Date Sampled: 12/03/07

Date Received: 12/04/07

Percent Solids: 56.0

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	0.98	D008	5.0	0.50	mg/l	1	12/11/07	12/13/07 ND	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA20235

(2) Prep QC Batch: MP41826

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261.6/96)

Report of Analysis

Page 1 of 1

Client Sample ID: S2249-RAW

Lab Sample ID: J78054-2

Matrix: SO - Soil

Project: Chevron, Perth Amboy

Date Sampled: 12/03/07

Date Received: 12/04/07

Percent Solids: 61.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	275	3.3	mg/kg	1	12/21/07	12/22/07 RP	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA20282

(2) Prep QC Batch: MP42010

RL = Reporting Limit

Report of Analysis

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3.4

Client Sample ID: S2249-RAW

Lab Sample ID: J78054-2A

Matrix: SO - Soil

Project: Chevron, Perth Amboy

Date Sampled: 12/03/07

Date Received: 12/04/07

Percent Solids: 61.6

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 0.50	D008	5.0	0.50	mg/l	1	12/11/07	12/13/07 ND	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA20235

(2) Prep QC Batch: MP41826

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261.6/96)

Report of Analysis

Page 1 of 1

Client Sample ID: S2387-RAW

Lab Sample ID: J78054-3

Matrix: SO - Soil

Project: Chevron, Perth Amboy

Date Sampled: 12/03/07

Date Received: 12/04/07

Percent Solids: 71.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	267	2.8	mg/kg	1	12/21/07	12/22/07 RP	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA20282

(2) Prep QC Batch: MP42010

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: S2387-RAW

Lab Sample ID: J78054-3A

Matrix: SO - Soil

Project: Chevron, Perth Amboy

Date Sampled: 12/03/07

Date Received: 12/04/07

Percent Solids: 71.6

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	3.1	D008	5.0	0.50	mg/l	1	12/11/07	12/13/07 ND	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA20235

(2) Prep QC Batch: MP41826

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261.6/96)

Report of Analysis

Page 1 of 1

Client Sample ID: S2197-RAS

Lab Sample ID: J78054-4

Matrix: SO - Soil

Project: Chevron, Perth Amboy

Date Sampled: 12/03/07

Date Received: 12/04/07

Percent Solids: 92.6

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead ^a	868	6.5	mg/kg	3	12/21/07	12/24/07 WP	SW846 6010B ^t	SW846 3050B ²

(1) Instrument QC Batch: MA20287

(2) Prep QC Batch: MP42010

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Page 1 of 1



Client Sample ID: S2197-RAS

Lab Sample ID: J78054-4A

Matrix: SO - Soil

Project: Chevron, Perth Amboy

Date Sampled: 12/03/07

Date Received: 12/04/07

Percent Solids: 92.6

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	1.6	D008	5.0	0.50	mg/l	1	12/11/07	12/13/07 ND	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA20235

(2) Prep QC Batch: MP41826

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261.6/96)



Section 4

4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

[illegible]

4.1

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J78054: Chain of Custody
Page 1 of 1

Internal Sample Tracking Chronicle

Entact Houston

Job No: J78054

Chevron, Perth Amboy
Project No: CVX 108

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
J78054-1	Collected: 03-DEC-07 16:10	By: MP	Received: 04-DEC-07	By:		
S1016-RAW						
J78054-1	EPA 160.3 M	07-DEC-07	TS			%SOL
J78054-1	SW846 6010B	22-DEC-07 05:37	RP	21-DEC-07	JF	PB
J78054-2	Collected: 03-DEC-07 16:15	By: MP	Received: 04-DEC-07	By:		
S2249-RAW						
J78054-2	EPA 160.3 M	07-DEC-07	TS			%SOL
J78054-2	SW846 6010B	22-DEC-07 05:58	RP	21-DEC-07	JF	PB
J78054-3	Collected: 03-DEC-07 16:20	By: MP	Received: 04-DEC-07	By:		
S2387-RAW						
J78054-3	EPA 160.3 M	07-DEC-07	TS			%SOL
J78054-3	SW846 6010B	22-DEC-07 06:05	RP	21-DEC-07	JF	PB
J78054-4	Collected: 03-DEC-07 16:25	By: MP	Received: 04-DEC-07	By:		
S2197-RAS						
J78054-4	EPA 160.3 M	07-DEC-07	TS			%SOL
J78054-4	SW846 6010B	24-DEC-07 15:21	WP	21-DEC-07	JF	PB
J78054-1A	Collected: 03-DEC-07 16:10	By: MP	Received: 04-DEC-07	By:		
S1016-RAW						
J78054-1A	SW846 6010B	13-DEC-07 00:29	ND	11-DEC-07	TG	EPB
J78054-2A	Collected: 03-DEC-07 16:15	By: MP	Received: 04-DEC-07	By:		
S2249-RAW						
J78054-2A	SW846 6010B	13-DEC-07 00:35	ND	11-DEC-07	TG	EPB
J78054-3A	Collected: 03-DEC-07 16:20	By: MP	Received: 04-DEC-07	By:		
S2387-RAW						
J78054-3A	SW846 6010B	13-DEC-07 00:40	ND	11-DEC-07	TG	EPB

Internal Sample Tracking Chronicle

Entact Houston

Job No: J78054

Chevron, Perth Amboy
Project No: CVX 108

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
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J78054-4A Collected: 03-DEC-07 16:25 By: MP Received: 04-DEC-07 By:
S2197-RAS

J78054-4A SW846 6010B 13-DEC-07 00:45 ND 11-DEC-07 TG EPB

Accutest Internal Chain of Custody

Page 1 of 4

Job Number: J78054
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy
Received: 12/04/07

4.3

4

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
J78054-1.1	Secured Storage	Adam Scott	12/06/07 08:59	Retrieve from Storage
J78054-1.1	Adam Scott	Adam Ellenberger	12/06/07 09:00	Custody Transfer
J78054-1.1	Adam Ellenberger	Secured Storage	12/06/07 16:25	Return to Storage
J78054-1.1	Secured Storage	Adam Scott	12/07/07 10:25	Retrieve from Storage
J78054-1.1	Adam Scott	Tyler Strauss	12/07/07 10:59	Custody Transfer
J78054-1.1	Tyler Strauss	Secured Storage	12/07/07 16:10	Return to Storage
J78054-1.1	Secured Storage	Adam Scott	12/20/07 07:00	Retrieve from Storage
J78054-1.1	Adam Scott	Teresa Guziak	12/20/07 08:04	Custody Transfer
J78054-1.1	Teresa Guziak	Secured Storage	12/20/07 16:12	Return to Storage
J78054-1.1	Secured Storage	Todd Shoemaker	12/21/07 08:10	Retrieve from Storage
J78054-1.1	Todd Shoemaker	Joshua Frenkel	12/21/07 08:11	Custody Transfer
J78054-1.1	Joshua Frenkel	Secured Storage	12/21/07 13:02	Return to Storage
J78054-1.1.1	Adam Ellenberger	TCLP	12/06/07 16:25	Leachate from J78054-1.1
J78054-1.1.1	TCLP	Adam Ellenberger	12/07/07 09:13	Leachate from J78054-1.1
J78054-1.1.1	Adam Ellenberger	Secured Storage	12/07/07 09:13	Return to Storage
J78054-1.1.1	Secured Storage	Teresa Guziak	12/11/07 14:10	Retrieve from Storage
J78054-1.1.1	Wei Zhou	Secured Storage	12/12/07 08:06	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
J78054-1.1.2	TCLP	Adam Ellenberger	12/07/07 09:13	Leachate from J78054-1.1
J78054-1.1.2	Adam Ellenberger	Secured Storage	12/07/07 09:13	Return to Storage
J78054-1.1.3	Teresa Guziak	Metals Digestion	12/11/07 16:18	Digestate from J78054-1.1.1
J78054-1.1.3	Metals Digestion	Teresa Guziak	12/11/07 16:19	Digestate from J78054-1.1.1
J78054-1.1.3	Teresa Guziak	Metals Digestate Storage	12/11/07 16:19	Return to Storage
J78054-1.1.4	Joshua Frenkel	Metals Digestion	12/21/07 09:59	Digestate from J78054-1.1
J78054-1.1.4	Metals Digestion	Joshua Frenkel	12/21/07 12:58	Digestate from J78054-1.1
J78054-1.1.4	Joshua Frenkel	Metals Digestate Storage	12/21/07 12:58	Return to Storage
J78054-1.1.4	Metals Digestate Storage	Rakesh Pathak	12/21/07 16:26	Retrieve from Storage
J78054-1.1.4	Rakesh Pathak	Metals Digestate Storage	12/21/07 16:42	Return to Storage
J78054-2.1	Secured Storage	Adam Scott	12/06/07 08:59	Retrieve from Storage
J78054-2.1	Adam Scott	Adam Ellenberger	12/06/07 09:00	Custody Transfer
J78054-2.1	Adam Ellenberger	Secured Storage	12/06/07 16:25	Return to Storage
J78054-2.1	Secured Storage	Adam Scott	12/07/07 10:25	Retrieve from Storage
J78054-2.1	Adam Scott	Tyler Strauss	12/07/07 10:59	Custody Transfer
J78054-2.1	Tyler Strauss	Secured Storage	12/07/07 16:10	Return to Storage
J78054-2.1	Secured Storage	Adam Scott	12/20/07 07:00	Retrieve from Storage
J78054-2.1	Adam Scott	Teresa Guziak	12/20/07 08:04	Custody Transfer
J78054-2.1	Teresa Guziak	Secured Storage	12/20/07 16:12	Return to Storage
J78054-2.1	Secured Storage	Todd Shoemaker	12/21/07 08:10	Retrieve from Storage
J78054-2.1	Todd Shoemaker	Joshua Frenkel	12/21/07 08:11	Custody Transfer

Accutest Internal Chain of Custody

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Job Number: J78054
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy
Received: 12/04/07

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Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
J78054-2.1	Joshua Frenkel	Secured Storage	12/21/07 13:02	Return to Storage
J78054-2.1.1	Adam Ellenberger	TCLP	12/06/07 16:25	Leachate from J78054-2.1
J78054-2.1.1	TCLP	Adam Ellenberger	12/07/07 09:13	Leachate from J78054-2.1
J78054-2.1.1	Adam Ellenberger	Secured Storage	12/07/07 09:13	Return to Storage
J78054-2.1.1	Secured Storage	Teresa Guziak	12/11/07 14:10	Retrieve from Storage
J78054-2.1.1	Wei Zhou	Secured Storage	12/12/07 08:06	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
J78054-2.1.2	TCLP	Adam Ellenberger	12/07/07 09:13	Leachate from J78054-2.1
J78054-2.1.2	Adam Ellenberger	Secured Storage	12/07/07 09:13	Return to Storage
J78054-2.1.3	Teresa Guziak	Metals Digestion	12/11/07 16:18	Digestate from J78054-2.1.1
J78054-2.1.3	Metals Digestion	Teresa Guziak	12/11/07 16:19	Digestate from J78054-2.1.1
J78054-2.1.3	Teresa Guziak	Metals Digestate Storage	12/11/07 16:19	Return to Storage
J78054-2.1.4	Joshua Frenkel	Metals Digestion	12/21/07 09:59	Digestate from J78054-2.1
J78054-2.1.4	Metals Digestion	Joshua Frenkel	12/21/07 12:58	Digestate from J78054-2.1
J78054-2.1.4	Joshua Frenkel	Metals Digestate Storage	12/21/07 12:58	Return to Storage
J78054-2.1.4	Metals Digestate Storage	Rakesh Pathak	12/21/07 16:26	Retrieve from Storage
J78054-2.1.4	Rakesh Pathak	Metals Digestate Storage	12/21/07 16:42	Return to Storage
J78054-3.1	Secured Storage	Adam Scott	12/06/07 08:59	Retrieve from Storage
J78054-3.1	Adam Scott	Adam Ellenberger	12/06/07 09:00	Custody Transfer
J78054-3.1	Adam Ellenberger	Secured Storage	12/06/07 16:25	Return to Storage
J78054-3.1	Secured Storage	Adam Scott	12/07/07 10:25	Retrieve from Storage
J78054-3.1	Adam Scott	Tyler Strauss	12/07/07 10:59	Custody Transfer
J78054-3.1	Tyler Strauss	Secured Storage	12/07/07 16:10	Return to Storage
J78054-3.1	Secured Storage	Adam Scott	12/20/07 07:00	Retrieve from Storage
J78054-3.1	Adam Scott	Teresa Guziak	12/20/07 08:04	Custody Transfer
J78054-3.1	Teresa Guziak	Secured Storage	12/20/07 16:12	Return to Storage
J78054-3.1	Secured Storage	Todd Shoemaker	12/21/07 08:10	Retrieve from Storage
J78054-3.1	Todd Shoemaker	Joshua Frenkel	12/21/07 08:11	Custody Transfer
J78054-3.1	Joshua Frenkel	Secured Storage	12/21/07 13:02	Return to Storage
J78054-3.1.1	Adam Ellenberger	TCLP	12/06/07 16:25	Leachate from J78054-3.1
J78054-3.1.1	TCLP	Adam Ellenberger	12/07/07 09:13	Leachate from J78054-3.1
J78054-3.1.1	Adam Ellenberger	Secured Storage	12/07/07 09:13	Return to Storage
J78054-3.1.1	Secured Storage	Teresa Guziak	12/11/07 14:10	Retrieve from Storage
J78054-3.1.1	Wei Zhou	Secured Storage	12/12/07 08:06	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
J78054-3.1.2	TCLP	Adam Ellenberger	12/07/07 09:13	Leachate from J78054-3.1
J78054-3.1.2	Adam Ellenberger	Secured Storage	12/07/07 09:13	Return to Storage

Accutest Internal Chain of Custody

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Job Number: J78054
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy
Received: 12/04/07

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Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
J78054-3.1.3	Teresa Guziak	Metals Digestion	12/11/07 16:18	Digestate from J78054-3.1.1
J78054-3.1.3	Metals Digestion	Teresa Guziak	12/11/07 16:19	Digestate from J78054-3.1.1
J78054-3.1.3	Teresa Guziak	Metals Digestate Storage	12/11/07 16:19	Return to Storage
J78054-3.1.4	Joshua Frenkel	Metals Digestion	12/21/07 09:59	Digestate from J78054-3.1
J78054-3.1.4	Metals Digestion	Joshua Frenkel	12/21/07 12:58	Digestate from J78054-3.1
J78054-3.1.4	Joshua Frenkel	Metals Digestate Storage	12/21/07 12:58	Return to Storage
J78054-3.1.4	Metals Digestate Storage	Rakesh Pathak	12/21/07 16:26	Retrieve from Storage
J78054-3.1.4	Rakesh Pathak	Metals Digestate Storage	12/21/07 16:42	Return to Storage
J78054-4.1	Secured Storage	Adam Scott	12/06/07 08:59	Retrieve from Storage
J78054-4.1	Adam Scott	Adam Ellenberger	12/06/07 09:00	Custody Transfer
J78054-4.1	Adam Ellenberger	Secured Storage	12/06/07 16:25	Return to Storage
J78054-4.1	Secured Storage	Adam Scott	12/07/07 10:25	Retrieve from Storage
J78054-4.1	Adam Scott	Tyler Strauss	12/07/07 10:59	Custody Transfer
J78054-4.1	Tyler Strauss	Secured Storage	12/07/07 16:10	Return to Storage
J78054-4.1	Secured Storage	Adam Scott	12/20/07 07:00	Retrieve from Storage
J78054-4.1	Adam Scott	Teresa Guziak	12/20/07 08:04	Custody Transfer
J78054-4.1	Teresa Guziak	Secured Storage	12/20/07 16:12	Return to Storage
J78054-4.1	Secured Storage	Todd Shoemaker	12/21/07 08:10	Retrieve from Storage
J78054-4.1	Todd Shoemaker	Joshua Frenkel	12/21/07 08:11	Custody Transfer
J78054-4.1	Joshua Frenkel	Secured Storage	12/21/07 13:02	Return to Storage
J78054-4.1.1	Adam Ellenberger	TCLP	12/06/07 16:25	Leachate from J78054-4.1
J78054-4.1.1	TCLP	Adam Ellenberger	12/07/07 09:13	Leachate from J78054-4.1
J78054-4.1.1	Adam Ellenberger	Secured Storage	12/07/07 09:13	Return to Storage
J78054-4.1.1	Secured Storage	Teresa Guziak	12/11/07 14:10	Retrieve from Storage
J78054-4.1.1	Wei Zhou	Secured Storage	12/12/07 08:06	Return to Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
J78054-4.1.2	TCLP	Adam Ellenberger	12/07/07 09:13	Leachate from J78054-4.1
J78054-4.1.2	Adam Ellenberger	Secured Storage	12/07/07 09:13	Return to Storage
J78054-4.1.3	Teresa Guziak	Metals Digestion	12/11/07 16:18	Digestate from J78054-4.1.1
J78054-4.1.3	Metals Digestion	Teresa Guziak	12/11/07 16:19	Digestate from J78054-4.1.1
J78054-4.1.3	Teresa Guziak	Metals Digestate Storage	12/11/07 16:19	Return to Storage
J78054-4.1.4	Joshua Frenkel	Metals Digestion	12/21/07 09:59	Digestate from J78054-4.1
J78054-4.1.4	Metals Digestion	Joshua Frenkel	12/21/07 12:58	Digestate from J78054-4.1
J78054-4.1.4	Joshua Frenkel	Metals Digestate Storage	12/21/07 12:58	Return to Storage
J78054-4.1.4	Metals Digestate Storage	Rakesh Pathak	12/21/07 16:26	Retrieve from Storage
J78054-4.1.4	Rakesh Pathak	Metals Digestate Storage	12/21/07 16:42	Return to Storage
J78054-4.1.4	Metals Digestate Storage	Wally Pimental	12/24/07 12:14	Retrieve from Storage

Accutest Internal Chain of Custody

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Job Number: J78054
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy
Received: 12/04/07

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
J78054-4.1.4	Wally Pimental	Metals Digestate Storage	12/24/07 16:19	Return to Storage

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Metals Analysis



QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganic Analyses

Login Number: J78054
Account: EHTXF - Enact Houston
Project: Chevron, Perth Amboy

File ID: 1T120507M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20199

Time	Sample Description	Dilution PS Factor	Recov	Comments
09:54	MA20199-STD1	1		STDA
10:00	MA20199-STD2	1		STDB
10:06	MA20199-STD3	1		STDC
10:13	MA20199-STD4	1		STDD
10:19	MA20199-STD5	1		STDE
10:25	MA20199-STD6	1		STDF
10:31	MA20199-STD7	1		STDG
10:38	MA20199-STD8	1		STDH
10:44	MA20199-STD9	1		STD1
11:25	MA20199-ICCV1	1		
11:34	MA20199-HSTD1	1		
11:40	MA20199-CR1B1	1		
11:46	MA20199-CR1A1	1		
11:56	MA20199-1CV1	1		
12:02	MA20199-1CB1	1		
12:09	MA20199-1CCV2	1		
12:16	MA20199-CCB1	1		
12:27	MA20199-1CSA1	1		
12:34	MA20199-1CSAB1	1		
12:46	MA20199-CCV1	1		
12:52	MA20199-CCB2	1		
13:06	ZZZZZZ	3		
13:12	ZZZZZZ	1		
13:18	ZZZZZZ	3		
13:24	ZZZZZZ	1		
13:30	ZZZZZZ	10		
13:36	MP41778-MB2	1		
13:42	MP41778-LC1	1		
13:48	ZZZZZZ	1		
13:54	ZZZZZZ	1		
14:00	MA20199-CCV2	1		
14:07	MA20199-CCB3	1		
14:13	MP41826-MB1	1		

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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHYX - Enract Houston
Project: Chevron, Perth Amboy

File ID: 17120507M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
Run ID: MAZ0199

Time	Sample Description	Dilution PS Factor	Recov	Comments
14:19	MP41826-B1	1		
14:25	MP41826-C1	1		
14:32	MP41826-SZ	1		
14:38	J77710-1	1		(sample used for QC only; not part of login J78054)
14:44	MP41826-SD1	5		
14:50	ZZZZZZ	1		Last reportable sample/prep for job J78054
14:56	ZZZZZZ	1		
15:02	ZZZZZZ	1		
15:08	MAZ0199-CCV3	1		
15:15	MAZ0199-CCB4	1		
15:21	ZZZZZZ	1		
15:28	ZZZZZZ	1		
15:33	ZZZZZZ	1		
15:39	ZZZZZZ	1		
15:45	MP4178S-MB2	1		
15:51	MP4178E-BZ	1		
15:57	ZZZZZZ	1		
16:03	ZZZZZZ	1		
16:09	ZZZZZZ	1		
16:15	MAZ0199-CCV4	1		
16:21	MAZ0199-CCB5	1		
16:28	MAZ0199-CR1B2	1		
16:37	MAZ0199-ICSA2	1		
16:43	MAZ0199-ICSABZ	1		
16:50	ZZZZZZ	1		
16:56	MAZ0199-CCV5	1		
17:02	MAZ0199-CCB6	1		
17:08	ZZZZZZ	10		Last reportable CCB for job J78054
17:14	ZZZZZZ	1		
17:21	ZZZZZZ	1		
17:27	ZZZZZZ	1		
17:33	ZZZZZZ	1		
17:39	ZZZZZZ	1		

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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Porth Amboy

File ID: IT120507M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20199

Time	Sample Description	Dilution PS Factor	Recov	Comments
17:45	ZZZZZZ	1		
17:51	ZZZZZZ	1		
17:57	ZZZZZZ	1		
18:03	ZZZZZZ	1		
18:10	MA20199-CCV6	1		
18:16	MA20199-CCB7	1		
18:22	ZZZZZZ	1		
18:28	ZZZZZZ	1		
18:34	MP41791-S1	1		
18:41	MP41791-S2	1		
18:47	J76752-1	1		(sample used for QC only; not part of login J78054)
18:53	MP41791-SD1	5		
18:59	ZZZZZZ	1		
19:05	ZZZZZZ	1		
19:11	ZZZZZZ	1		
19:17	ZZZZZZ	1		
19:24	MA20199-CCV7	1		
19:30	MA20199-CCB8	1		
19:36	ZZZZZZ	1		
19:42	ZZZZZZ	1		
19:48	ZZZZZZ	1		
19:55	ZZZZZZ	1		
20:01	ZZZZZZ	1		
20:07	ZZZZZZ	1		
20:13	ZZZZZZ	1		
20:19	ZZZZZZ	1		
20:25	ZZZZZZ	1		
20:31	ZZZZZZ	1		
20:37	MA20199-CCV8	1		
20:44	MA20199-CCB9	1		
20:50	ZZZZZZ	1		
20:56	ZZZZZZ	1		
21:03	ZZZZZZ	1		

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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Keith Amboy

File ID: IT120507M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20199

Time	Sample Description	Dilution PS Factor	Recov	Comments
21:09	MP41814-MB1	1		
21:15	MP41814-B1	1		
21:21	MP41814-S1	1		
21:27	MP41814-S2	1		
21:33	J7806-9	1		(sample used for QC only; not part of login J78054)
21:39	MP41814-SD1	5		
21:45	ZZZZZZ	1		
21:51	MA20199-CCV9	1		
22:03	MA20199-ICB10	1		
22:10	ZZZZZZ	1		
22:16	ZZZZZZ	1		
22:22	ZZZZZZ	1		
22:28	ZZZZZZ	1		
22:34	ZZZZZZ	1		
22:40	ZZZZZZ	1		
22:46	ZZZZZZ	1		
22:53	ZZZZZZ	1		
22:59	ZZZZZZ	1		
23:05	ZZZZZZ	1		
23:11	MA20199-CCV10	1		
23:17	MA20199-CCB11	1		
23:48	MA20199-CRIB3	1		
23:55	MA20199-ICSA3	1		
00:03	MA20199-ICSAB3	1		
00:14	MA20199-CCV11	1		
00:20	MA20199-CCB12	1		
00:27	ZZZZZZ	1		
00:41	ZZZZZZ	1		
00:47	ZZZZZZ	1		
00:53	ZZZZZZ	1		
00:59	ZZZZZZ	1		
01:05	ZZZZZZ	1		
01:11	ZZZZZZ	1		

5.1
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF ~ Entact Houston
Project: Chevron, Perth Amboy

File ID: IT120507M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 60108
Run ID: MA20199

Time	Sample Description	Dilution PS Factor	Recov	Comments
01:17	MP41827~MB1	1		
01:23	MP41827~B1	1		
01:30	MP41827~S1	1		
01:36	MA20199~CCV12	1		
01:42	MA20199~CCB13	1		
01:48	MP41827~S2	1		
01:54	J77809~1	1		(sample used for QC only; not part of login J78054)
02:01	MP41827~SD1	5		
02:07	MP41788~S1	1		
02:13	MP41788~S2	1		
02:19	J76787~3	1		(sample used for QC only; not part of login J78054)
02:25	MP41788~SD1	5		
02:31	ZZZZZZ	1		
02:37	ZZZZZZ	1		
02:44	ZZZZZZ	1		
02:50	MA20199~CCV13	1		
02:56	MA20199~CCB14	1		
03:02	ZZZZZZ	1		
03:08	ZZZZZZ	1		
03:15	ZZZZZZ	1		
03:21	ZZZZZZ	1		
03:27	ZZZZZZ	1		
03:33	ZZZZZZ	1		
03:39	ZZZZZZ	1		
03:45	ZZZZZZ	1		
03:51	ZZZZZZ	1		
03:58	ZZZZZZ	1		
04:04	MA20199~CCV14	1		
04:10	MA20199~CCB15	1		
04:16	ZZZZZZ	1		
04:23	ZZZZZZ	1		
04:29	ZZZZZZ	1		
04:35	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analytes

Login Number: J78054
Account: ERTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT120507M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20199

Time	Sample Description	Dilution PS Factor	Recov	Comments
04:41	ZZZZZZ	1		
04:47	ZZZZZZ	1		
04:53	ZZZZZZ	1		
04:59	ZZZZZZ	1		
05:06	MA20199-CCV15	1		
05:12	MA20199-CCB16	1		
05:18	ZZZZZZ	1		
05:24	ZZZZZZ	1		
05:30	ZZZZZZ	1		
05:36	MA20199-CCV16	1		
05:43	MA20199-CCB17	1		
07:34	MA20199-ICSA4	1		
07:40	MA20199-ICSA4	1		
07:49	MA20199-CCV17	1		
07:56	MA20199-CCB18	1		
08:05	ZZZZZZ	1		
08:14	ZZZZZZ	1		
08:20	ZZZZZZ	1		
08:25	ZZZZZZ	1		
08:32	ZZZZZZ	25		
08:40	ZZZZZZ	100		
08:49	ZZZZZZ	1000		
08:56	ZZZZZZ	1		
09:11	MA20199-ICSA5	1		
09:17	MA20199-ICSA5	1		
09:23	MA20199-CCV18	1		
09:30	MA20199-CCB19	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perlh Amboy

File ID: IT120507M1.DAT
Analyst: ND
Parameters: PE

Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20099

Time	Sample Description	Isrd#1
08:54	MA20199-STD1	83014 R
10:00	MA20199-STD2	82976
10:06	MA20199-STD3	83091
10:13	MA20199-STD4	82210
10:19	MA20199-STD5	82501
10:25	MA20199-STD6	82055
10:31	MA20199-STD7	82893
10:38	MA20199-STD8	80671
10:44	MA20199-STD9	80539
11:25	MA20199-ICCV1	81272
11:34	MA20199-HSTD1	80425
12:40	MA20199-CRIB1	82853
12:46	MA20199-CR1A1	82138
11:56	MA20199-ICV1	80758
12:02	MA20199-ICB1	82354
12:09	MA20199-ICCV2	81064
12:26	MA20199-CCB1	82554
12:27	MA20199-1CSA1	77198
12:34	MA20199-1CSAB1	77343
12:46	MA20199-CCV1	80454
12:52	MA20199-CCB2	82260
13:06	ZZZZZZ	82350
13:12	ZZZZZZ	82312
13:28	ZZZZZZ	82937
13:24	ZZZZZZ	83053
13:30	ZZZZZZ	82535
13:36	MP41778-MB2	78494
13:42	MP41778-LC1	79824
13:48	ZZZZZZ	77928
13:54	ZZZZZZ	79243
14:00	MA20199-CCV2	80720
14:07	MA20199-CCB3	81587
14:13	MP41826-MB1	77803

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1T120507M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20199

Time	Sample Description	Istd#1
14:19	MP41826-B1	78057
14:25	MP41826-S1	79341
14:32	MP41826-S2	79125
14:38	J77710-1	78827
14:44	MP41826-SD1	81189
14:50	ZZZZZZ	79021
14:56	ZZZZZZ	77846
15:02	ZZZZZZ	79335
15:08	MA20199-CCV3	80357
15:15	MA20199-CCB4	82997
15:21	ZZZZZZ	79726
15:28	ZZZZZZ	82700
15:33	ZZZZZZ	81978
15:39	ZZZZZZ	79697
15:45	MP41788-MB2	82276
15:51	MP41788-B2	82162
15:57	ZZZZZZ	85692
16:03	ZZZZZZ	86922
16:09	ZZZZZZ	87683
16:15	MA20199-CCV4	81570
16:21	MA20199-CCB5	82309
16:28	MA20199-CRIB2	82672
16:37	MA20199-ICSA2	75233
16:43	MA20199-1CSAB2	76417
16:50	ZZZZZZ	79369
16:56	MA20199-CCV5	80745
17:02	MA20199-CCB6	82438
17:08	ZZZZZZ	81737
17:14	ZZZZZZ	82261
17:21	ZZZZZZ	80694
17:27	ZZZZZZ	81292
17:33	ZZZZZZ	80443
17:39	ZZZZZZ	79350

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entaht Houston
Project: Chevron, Perth Amboy

File ID: IT120507M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/08/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20199

Time	Sample Description	Istd#1
15:45	ZZZZZZ	80299
17:51	ZZZZZZ	79325
17:57	ZZZZZZ	78469
18:03	ZZZZZZ	82085
18:10	MA20199~CCV6	81127
18:16	MA20199~CCB7	82630
18:22	ZZZZZZ	80871
18:28	ZZZZZZ	82307
18:34	MP41791~S1	80782
18:41	MP41791~S2	80270
18:47	J76752~1	82222
18:53	MP41791~SD1	82017
18:58	ZZZZZZ	81239
19:05	ZZZZZZ	79797
19:11	ZZZZZZ	80932
19:17	ZZZZZZ	81607
19:24	MA20199~CCV7	80719
19:30	MA20199~CCB8	81918
19:36	ZZZZZZ	81480
19:42	ZZZZZZ	81770
19:48	ZZZZZZ	81526
19:55	ZZZZZZ	80573
20:01	ZZZZZZ	80605
20:07	ZZZZZZ	81247
20:13	ZZZZZZ	81278
20:19	ZZZZZZ	83571
20:25	ZZZZZZ	82065
20:31	ZZZZZZ	81805
20:37	MA20199~CCV8	81051
20:44	MA20199~CCB9	82035
20:50	ZZZZZZ	82039
20:56	ZZZZZZ	80516
21:03	ZZZZZZ	80163

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHIXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT120507M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20199

Time	Sample Description	Istd#1
21:09	MP41814-MB1	83750
21:15	MP41814-81	81717
21:21	MP41814-S1	86636
21:27	MP41814-S2	85429
21:33	J77806-9	88046
21:39	MP41814-SD1	83779
21:45	ZZZZZZ	87200
21:51	MA20199-CCV9	79831
22:03	MA20199-CCB10	81875
22:10	ZZZZZZ	83566
22:16	ZZZZZZ	84503
22:22	ZZZZZZ	83987
22:28	ZZZZZZ	83811
22:34	ZZZZZZ	84396
22:40	ZZZZZZ	84617
22:46	ZZZZZZ	97208
22:53	ZZZZZZ	90772
22:59	ZZZZZZ	88500
23:05	ZZZZZZ	85828
23:11	MA20199-CCV10	80533
23:17	MA20199-CCB11	82405
23:48	MA20199-CRIB3	82000
23:55	MA20199-ICSA3	76675
00:03	MA20199-ICSA83	76614
00:14	MA20199-CCV11	80780
00:20	MA20199-CCB12	82475
00:27	ZZZZZZ	97445
00:41	ZZZZZZ	90126
00:47	ZZZZZZ	85997
00:53	ZZZZZZ	92715
00:59	ZZZZZZ	89716
01:05	ZZZZZZ	85040
01:11	ZZZZZZ	86723

S.1.1

5

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: SHTXF - Enact Houston
Project: Chevron, Perth Amboy

File ID: I7120507M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/05/07 Method: EPA 200.7, SW846 6010B
Run ID: MA20199

Time	Sample Description	Istd#1
01:17	MP41827-MB1	79043
01:23	MP41827-B1	85296
01:30	MP41827-S1	81386
01:36	MA20199-CCV12	82526
01:47	MA20199-CCB13	84155
01:48	MP41827-S2	80206
01:54	J77809-1	81624
02:01	MP41827-SD1	83444
02:07	MP41788-S1	84812
02:13	MP41788-S2	84751
02:19	J76787-3	86404
02:25	MP41788-SD1	85220
02:31	ZZZZZZ	86934
02:37	ZZZZZZ	87166
02:44	ZZZZZZ	86126
02:50	MA20199-CCV13	83130
02:56	MA20199-CCB14	84208
03:02	ZZZZZZ	86974
03:08	ZZZZZZ	87784
03:15	ZZZZZZ	86495
03:21	ZZZZZZ	86960
03:27	ZZZZZZ	86865
03:33	ZZZZZZ	85834
03:39	ZZZZZZ	86043
03:45	ZZZZZZ	85347
03:51	ZZZZZZ	86205
03:58	ZZZZZZ	95532
04:04	MA20199-CCV14	83126
04:10	MA20199-CCB15	83554
04:16	ZZZZZZ	86692
04:23	ZZZZZZ	88437
04:29	ZZZZZZ	81082
04:35	ZZZZZZ	80845

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Enact Houston
Project: Chevron, Perth Amboy

File ID: IT20503M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20199

Time	Sample Description	Istd#1
04:41	ZZZZZZ	81460
04:47	ZZZZZZ	81770
04:53	ZZZZZZ	80014
04:59	ZZZZZZ	81776
05:06	MA20199-CCV15	81863
05:12	MA20199-CCB16	84959
05:18	ZZZZZZ	80509
05:24	ZZZZZZ	80557
05:30	ZZZZZZ	82763
05:36	MA20199-CCV16	84007
05:43	MA20199-CCB17	83429
07:34	MA20199-ICSA4	77844
07:40	MA20199-ICSA4B4	79171
07:49	MA20199-CCV17	82725
07:56	MA20199-CCB18	84840
08:05	ZZZZZZ	80125
08:14	ZZZZZZ	88112
08:20	ZZZZZZ	86946
08:25	ZZZZZZ	79671
08:32	ZZZZZZ	86291
08:40	ZZZZZZ	83003
08:49	ZZZZZZ	84362
08:56	ZZZZZZ	82890
09:11	MA20199-ICSA5	77386
09:17	MA20199-ICSA5B5	77781
09:23	MA20199-CCV18	81628
09:30	MA20199-CCB19	84010

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium	60-125 %

S.1.1

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT120507M1.DAT
QC limits: result < RL

Date Analyzed: 12/05/07
Run ID: MA20199

Methods: EPA 200.1, SW846 6010B
Units: ug/l

Time:			12:02	12:16		12:52		14:07		
Sample ID:			ICB1	CCB1		CCB2		CCB3		
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26	anr							
Antimony	6.0	5.3	anr							
Arsenic	8.0	4.2	anr							
Barium	200	.3	anr							
Beryllium	1.0	.2	anr							
Cadmium	4.0	.4	anr							
Calcium	5000	85	anr							
Chromium	10	.9	anr							
Cobalt	50	1.1	anr							
Copper	25	1.3	anr							
Iron	100	8.5	anr							
Lead	3.0	2.7	-1.4	<3.0	-0.41	<3.0	2.6	<3.0	7.6	* (a)
Magnesium	5000	24	anr							
Manganese	15	.4	anr							
Molybdenum	20	1.2								
Nickel	40	1.7	anr							
Palladium	50	5.8								
Potassium	10000	66	anr							
Selenium	10	3.9	anr							
Silicon	250	6.6								
Silver	10	1.5	anr							
Sodium	10000	480	anr							
Thallium	10	5	anr							
Tin	10	2.7								
Vanadium	50	1.6	anr							
Zinc	20	4.2	anr							

(*) Outside of QC limits

(anr) Analyte not requested

(a) Within RDL limits for TCLP leachates and soils and less than 3 times the IDL for this element. Only TCLP and soil samples reported for this element in the area bracketed by this QC.

5.1.2

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: SHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: ITI20507M1.DAT Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA20199 Units: ug/l

Time:			15:15		16:21		17:02	
Sample ID:			CCB4		CCB5		CCB6	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	26	anr					
Antimony	6.0	5.3	anr					
Arsenic	8.0	4.2	anr					
Barium	200	.3	anr					
Beryllium	1.0	.2	anr					
Cadmium	4.0	.4	anr					
Calcium	5000	85	anr					
Chromium	10	.9	anr					
Cobalt	50	1.1	anr					
Copper	25	1.3	anr					
Iron	100	8.3	anr					
Lead	3.0	2.7	2.0	<3.0	-1.1	<3.0	-2.2	<3.0
Magnesium	5000	24	anr					
Manganese	15	.4	anr					
Molybdenum	20	1.2						
Nickel	40	1.7	anr					
Palladium	50	5.8						
Potassium	10000	66	anr					
Selenium	10	3.9	anr					
Silicon	200	6.6						
Silver	10	1.5	anr					
Sodium	10000	480	anr					
Thallium	10	5	anr					
Tin	10	2.7						
Vanadium	50	1.6	anr					
Zinc	20	4.2	anr					

(*) Outside of QC limits
(anr) Analyte not requested

5.1.2

5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT120507M1.DAT Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20199 Units: ug/l

Time:		11:56			12:46			14:00		
Sample ID:		ICV	ICV1	CCV	CCV1	CCV	CCV2	CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	
Aluminum	anr									
Antimony	anr									
Arsenic	anr									
Barium	anr									
Beryllium	anr									
Cadmium	anr									
Calcium	anr									
Chromium	anr									
Cobalt	anr									
Copper	anr									
Iron	anr									
Lead	1000	988	98.8	2000	1890	94.5	2000	1970	98.5	
Magnesium	anr									
Manganese	anr									
Molybdenum										
Nickel	anr									
Palladium										
Potassium	anr									
Selenium	anr									
Silicon										
Silver	anr									
Sodium	anr									
Thallium	anr									
Tin										
Vanadium	anr									
Zinc	anr									

(*) Outside of QC limits
(anr) Analyte not requested

5.1.3

5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: ETI20507M1.DAT Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20199 Units: ug/L

Time:		15:08		16:15		16:56			
Sample ID:	CCV	CCV3	CCV	CCV4	CCV	CCV5			
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1940	97.0	2000	1950	97.5	2000	1970	98.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

5.1.3
5

HIGH STANDARD CHECK SUMMARY

Login Number: J78054
 Account: EHTXF - Entact Houston
 Project: Chevron, Perrin Amboy

File ID: IT120507M1.DAT Date Analyzed: 12/05/97 Methods: EPA 200.7, SW846 6010B
 QC Limits: 95 to 105 % Recovery Run ID: MA20193 Units: ug/l

Time:	11:34
Sample ID:	HSTD
Metal	True
Results	% Rec

Aluminum	anr
Antimony	anr
Arsenic	anr
Barium	anr
Beryllium	anr
Cadmium	anr
Calcium	anr
Chromium	anr
Cobalt	anr
Copper	anr
Iron	anr
Lead	4000 3980 99.5
Magnesium	anr
Manganese	anr
Molybdenum	
Nickel	anr
Palladium	
Potassium	anr
Selenium	anr
Silicon	
Silver	anr
Sodium	anr
Thallium	anr
Tin	
Vanadium	anr
Zinc	anr

(*) Outside of QC limits
 (anr) Analyte not requested

5.1.4

5

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perch Amboy

File JD: IT120507M1.DAT
QC Limits: 50 to 150 % Recovery

Date Analyzed: 12/05/07
Run ID: MA20199

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:	11:46		
Sample ID:	CRI	CR1A	CR1A1
Metal	True	True	Results % Rec

Aluminum

Antimony 120 10

Arsenic 20 20

Barium 400

Beryllium 10 2.0 anr

Cadmium 10

Calcium

Chromium 20

Cobalt 100

Copper 50

Iron

Lead 6.0 6.0

Magnesium

Manganese 30

Molybdenum 40

Nickel 80

Palladium 100

Potassium

Selenium 10 10

Silicon

Silver 20

Sodium

Thallium 20 20

Tin

Vanadium 100

Zinc 40

(*) Outside of QC limits
(anr) Analyte not requested

5.1.5

5

INITIAL LOW CALIBRATION CHECK STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1T120507M1.DAT Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 50 to 150 % Recovery Run ID: MA20193 Units: ug/l

Time:		11:40	16:28	
Sample ID:		CRIB	CRIB1	
Metal		True	Results	% Rec
Aluminum	400			
Antimony	12			
Arsenic	16			
Barium	400			
Beryllium	2.0			
Cadmium	8.0			
Calcium	5000			
Chromium	20			
Cobalt	100			
Copper	50			
Iron	200			
Lead	6.0	5.6	92.3	7.1
Magnesium	5000			
Manganese	30			
Molybdenum	40			
Nickel	80			
Palladium	100			
Potassium	10000			
Selenium	20			
Silicon	400			
Silver	20			
Sodium	10000			
Thallium	20			
Tin	20			
Vanadium	100			
Zinc	40			

(*) Outside of QC limits
(anr) Analyte not requested

5.1.6

5

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: JT120507M1.DAT Date Analyzed: 12/05/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA20199 Units: ug/l

Time:		12:27		12:34		16:37		16:43		
Sample ID:	ICSA	ICSAB	ICSAB1		ICSAB1		ICSAB2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	505000	101.0	506000	101.2	512000	102.4	510000	102.0
Antimony		1000	3.7		1050	105.0	-3.1		1040	104.0
Arsenic		1000	7.0		1040	104.0	3.4		1050	105.0
Barium		500	-0.14		537	106.4	-0.18		535	107.0
Beryllium		500	0.073		513	102.6	0.072		517	103.4
Cadmium		1000	1.9		1000	100.0	1.8		1010	101.0
Calcium	400000	400000	378000	94.5	377000	94.3	376000	94.0	380000	95.0
Chromium		500	2.7		487	97.4	2.0		491	98.2
Cobalt		500	-2.1		506	101.2	-2.7		509	101.8
Copper		500	-0.30		519	103.8	-1.1		522	104.4
Iron	200000	200000	191000	95.5	186000	93.0	190000	95.0	187000	93.5
Lead		1000	-0.26		993	99.3	5.3		975	97.5
Magnesium	500000	500000	510000	102.0	504000	100.8	502000	100.4	508000	101.6
Manganese		500	3.9		507	101.4	4.0		509	101.8
Molybdenum		500	-2.8		499	99.8	-2.1		499	99.8
Nickel		1000	-2.3		952	95.2	-1.9		958	95.8
Palladium		500	5.4		524	104.8	3.4		526	105.2
Potassium			4190		4090		3960		4200	
Selenium		1000	-0.64		1040	104.0	1.1		1030	103.0
Silicon			-66		89.2		-63		88.4	
Silver		1000	-1.1		1080	108.0	-1.2		1090	109.0
Sodium			68.9		-350		72.4		-420	
Thallium		1000	-1.2		1010	101.0	3.2		1000	100.0
Tin			-3.5		5.0		-3.4		0.45	
Vanadium		500	-8.5		504	100.8	-8.8		504	100.8
Zinc		1000	0.75		982	98.2	1.1		990	99.0

(*) Outside of QC limits
(anr) Analyte not requested

5.1.7

5

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20235

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:43	MA20235-STD1	1		STDA
09:48	MA20235-STD2	1		STDB
09:54	MA20235-STD3	1		STDC
09:59	MA20235-STD4	1		STDD
10:05	MA20235-STD5	1		STDE
10:10	MA20235-STD6	1		STDF
10:16	MA20235-STD7	1		STDG
10:21	MA20235-STD8	1		STDH
10:27	MA20235-STD9	1		STDI
11:03	MA20235-STD10	1		STDE
11:10	MA20235-STD1	1		
11:16	MA20235-CRIB1	1		
11:21	MA20235-CR1A1	1		
11:27	MA20235-ICV1	1		
11:32	MA20235-ICB1	1		
11:38	MA20235-ICCV1	1		
11:44	MA20235-CCB1	1		
11:54	MA20235-ICSA1	1		
12:00	MA20235-ICSA1	1		
12:06	MA20235-CCV1	1		
12:11	MA20235-CCB2	1		
12:32	ZZZZZZ	3		
12:38	ZZZZZZ	1		
12:44	ZZZZZZ	1		
12:48	J77850-1	1		(sample used for QC only; not part of login J78054)
12:53	ZZZZZZ	1		
12:58	ZZZZZZ	1		
13:03	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:13	MA20235-CCV2	1		
13:19	MA20235-CCB3	1		
13:24	ZZZZZZ	2		
13:30	ZZZZZZ	2		

Accutest Laboratories Instrument Runlog
Inorganic Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: ER121207M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20235

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:35	ZZZZZZ	10		
13:41	ZZZZZZ	2		
13:46	ZZZZZZ	2		
13:51	ZZZZZZ	1		
13:57	MP41872-S1	1		
14:02	MP41872-S2	1		
14:07	ZZZZZZ	1		
14:13	ZZZZZZ	1		
14:18	MA20235-CCV2	1		
14:24	MA20235-CCB4	1		
14:29	ZZZZZZ	1		
14:35	ZZZZZZ	1		
14:40	ZZZZZZ	1		
14:45	ZZZZZZ	2		
14:51	MP41894-S1	1		
14:56	MP41894-S2	1		
15:02	J77894-14	1		(Sample used for QC only; not part of login J78054)
15:07	MP41894-SD1	5		
15:12	ZZZZZZ	1		
15:18	ZZZZZZ	1		
15:24	MA20235-CCV4	1		
15:30	MA20235-CCB5	1		
15:35	ZZZZZZ	2		
15:41	ZZZZZZ	1		
15:46	ZZZZZZ	1		
15:52	ZZZZZZ	1		
15:57	ZZZZZZ	2		
16:02	ZZZZZZ	1		
16:07	ZZZZZZ	1		
16:12	ZZZZZZ	1		
16:18	ZZZZZZ	1		
16:22	MA20235-CCV5	1		
16:27	MA20235-CCB6	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1R121207M1.DAT
Analyse: ND
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20235

Time	Sample Description	Dilution PS Factor	Recov	Comments
16:33	MA20235-CRIB2	1		
16:40	MA20235-ICSA2	1		
16:46	MA20235-ICSA2	1		
16:56	MA20235-CCV6	1		
17:01	MA20235-CCB7	1		
17:07	ZZZZZZ	1		
17:12	ZZZZZZ	1		
17:18	ZZZZZZ	1		
17:23	ZZZZZZ	1		
17:28	ZZZZZZ	1		
17:34	ZZZZZZ	1		
17:39	ZZZZZZ	1		
17:44	ZZZZZZ	1		
17:50	ZZZZZZ	1		
17:55	MA20235-CCV7	1		
18:01	MA20235-CCB8	1		
18:06	MP41909-MB1	1		
18:12	MP41909-B1	1		
18:28	MP41909-MB1	1		
18:33	MP41909-LC1	1		
18:38	MP41909-S1	1		
18:44	MP41909-S2	1		
18:49	J77963-1	1		(sample used for QC only; not part of login J78054)
18:55	MP41909-SD1	5		
19:00	ZZZZZZ	1		
19:05	MA20235-CCV8	1		
19:11	MA20235-CCB9	1		
19:16	ZZZZZZ	1		
19:22	ZZZZZZ	1		
19:27	ZZZZZZ	1		
19:33	ZZZZZZ	1		
19:38	ZZZZZZ	1		
19:43	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 601.0B
Run ID: MA20235

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:49	ZZZZZZ	1		
19:54	ZZZZZZ	1		
20:00	ZZZZZZ	1		
20:05	MA20235-CCV9	1		
20:11	MA20235-CCB10	1		
20:16	ZZZZZZ	1		
20:22	ZZZZZZ	1		
20:27	MP41873-MB2	1		
20:32	MP41873-LC1	1		
20:38	ZZZZZZ	1		
20:43	ZZZZZZ	1		
20:48	ZZZZZZ	1		
20:54	ZZZZZZ	1		
20:59	ZZZZZZ	1		
21:05	MA20235-CCV10	1		
21:20	MA20235-CCB11	1		
21:26	ZZZZZZ	1		
21:31	ZZZZZZ	1		
21:37	ZZZZZZ	1		
21:42	ZZZZZZ	1		
21:47	ZZZZZZ	1		
21:53	ZZZZZZ	1		
21:58	ZZZZZZ	1		
22:03	ZZZZZZ	1		
22:09	ZZZZZZ	1		
22:14	MA20235-CCV11	1		
22:20	MA20235-CCB12	1		
22:25	ZZZZZZ	1		
22:31	ZZZZZZ	5		
22:36	ZZZZZZ	5		
22:42	ZZZZZZ	1		
22:47	MP41882-S1	1		
22:52	MP41882-S2	1		

Accutest Laboratories Instrument Runlog
Inorganic Analyses

Login Number: J78054
Account: EHTXF - Entech Houston
Project: Chevron, Perth Amboy

File ID: IR22i207M1.DAT
Analyst: NE
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20235

Time	Sample Description	Dilution Factor	PD Recov	Comments
22:58	ZZZZZZ	1		
23:03	MP41882-SD1	5		
23:09	MP41826-MB3	5		
23:14	MA20235-CCV12	1		
23:20	MA20235-CCB13	1		
23:51	MA20235-CREB3	1		
23:56	MA20235-ICSA3	1		
00:02	MA20235-ICDAB3	1		
00:07	MA20235-CCV13	1		
00:13	MA20235-CCB14	1		
00:19	MP41826-MB3	1		
00:24	MP41826-LC2	1		
00:29	J78054-1A	1		
00:35	J78054-2A	1		
00:40	J78054-3A	1		
00:45	J78054-4A	1		
----->	Left reportable sample/prep for job J78054			
00:51	MP41906-MB1	1		
00:56	MP41906-B1	1		
01:01	MP41906-S1	1		
01:07	MP41906-S2	1		
01:12	MA20235-CCV14	1		
01:18	MA20225-CCB15	1		
01:23	J77722-3R	1		(sample used for QC only; not part of login J78054)
01:29	MP41906-SD1	5		
01:34	ZZZZZZ	1		
01:39	ZZZZZZ	1		
01:45	ZZZZZZ	1		
01:50	ZZZZZZ	1		
01:56	ZZZZZZ	1		
02:01	MP41904-MB1	1		
02:06	MP41904-B1	1		
02:12	MA20235-CCV15	1		
02:17	MA20235-CCB16	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: TR121207M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20235

Time	Sample Description	Dilution Factor	PS Recov	Comments
02:23	MP41904-S1	1		
02:28	MP41904-S2	1		
02:34	J78053-1	1		(sample used for QC only; not part of login J78054)
02:39	MP41904-SD1	5		
02:45	ZZZZZZ	1		
02:50	MP41880-PS1	1		
02:55	ZZZZZZ	1		
03:01	MP41895-PS1	2		
03:06	ZZZZZZ	1		
03:12	MA20235-CCV16	1		
03:17	MA20235-CCB17	1		
07:34	MA20235-CRIB4	1		
07:40	MA20235-ICSA4	1		
07:45	MA20235-ICSAB4	1		
07:51	MA20235-CCV17	1		
07:57	MA20235-CCB18	1		
08:04	ZZZZZZ	2		
08:11	ZZZZZZ	1		
08:16	ZZZZZZ	1		
08:21	ZZZZZZ	1		
08:27	ZZZZZZ	5		
08:33	ZZZZZZ	1		
08:40	MP41893-S1	1		
08:45	MP41893-S2	1		
08:50	MP41893-SD1	5		
08:56	MA20235-CCV18	1		
09:01	MA20235-CCB19	2		
09:11	MP41892-B1	1		
09:15	ZZZZZZ	1		
09:20	MA20235-ICSA5	1		
09:25	MA20235-ICSAB5	1		
09:41	MA20235-CCV19	2		
09:36	MA20235-CCB20	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20235

Time	Sample Description	Istd#1
09:43	MA20235-STD1	495353 R
09:48	MA20235-STD2	493947
09:54	MA20235-STD3	495779
09:59	MA20235-STD4	492449
10:05	MA20235-STD5	495961
10:10	MA20235-STD6	493022
10:16	MA20235-STD7	492735
10:21	MA20235-STD8	494706
10:27	MA20235-STD9	488623
11:03	MA20235-STD10	495152
11:10	MA20235-HSTD1	483837
11:16	MA20235-CR1B1	493552
11:21	MA20235-CR1A1	493623
11:27	MA20235-ICV1	495732
11:32	MA20235-ICB1	502127
11:38	MA20235-ICCV1	493595
11:44	MA20235-CCB1	496601
11:54	MA20235-ICSA1	470226
12:00	MA20235-ICSAB1	471649
12:06	MA20235-CCV1	504139
12:11	MA20235-CCB2	496168
12:32	ZZZZZZ	508630
12:38	ZZZZZZ	519454
12:44	ZZZZZZ	541938
12:48	J77850-1	536281
12:53	ZZZZZZ	507843
12:58	ZZZZZZ	496810
13:03	ZZZZZZ	495243
13:09	ZZZZZZ	492953
13:13	MA20235-UCV2	493963
13:19	MA20235-CCB3	496920
13:24	ZZZZZZ	496972
13:30	ZZZZZZ	507677

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: ESTXF - Entact Houston
Project: Chevron, Parth Amboy

File ID: IR121207M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20235

Time	Sample Description	Istd#1
13:35	ZZZZZZ	495860
13:41	ZZZZZZ	514405
13:46	ZZZZZZ	506010
13:51	ZZZZZZ	498811
13:57	MP41872-S1	496975
14:02	MP41872-S2	493460
14:07	ZZZZZZ	505060
14:13	ZZZZZZ	513135
14:18	MA20235-CCV3	496450
14:24	MA20235-CCB4	494760
14:29	ZZZZZZ	512221
14:35	ZZZZZZ	514485
14:40	ZZZZZZ	502781
14:45	ZZZZZZ	495263
14:51	MP41894-S1	562377
14:56	MP41894-S2	551753
15:02	J77894-14	563906
15:07	MP41894-SD1	514239
15:12	ZZZZZZ	522019
15:18	ZZZZZZ	525881
15:24	MA20235-CCV4	496331
15:30	MA20235-CCB5	499489
15:35	ZZZZZZ	486738
15:41	ZZZZZZ	553643
15:46	ZZZZZZ	540678
15:52	ZZZZZZ	541897
15:57	ZZZZZZ	565213
16:02	ZZZZZZ	567837
16:07	ZZZZZZ	556788
16:12	ZZZZZZ	551969
16:18	ZZZZZZ	571850
16:22	MA20235-CCV5	502390
16:27	MA20235-CCB6	500256

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: ERTXP - Entact Houston
Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20235

Time	Sample Description	Istd#1
16:33	MA20235-CRIB2	503367
16:40	MA20235-ICSA2	481069
16:46	MA20235-ICSA2	479742
16:56	MA20235-CCV6	497226
17:01	MA20235-CCB7	501809
17:07	ZZZZZZ	571603
17:12	ZZZZZZ	574197
17:18	ZZZZZZ	558189
17:23	ZZZZZZ	551820
17:28	ZZZZZZ	547329
17:34	ZZZZZZ	553074
17:39	ZZZZZZ	552468
17:44	ZZZZZZ	558240
17:50	ZZZZZZ	561638
17:55	MA20235-CCV7	438458
18:01	MA20235-CCB8	499175
18:06	MP41909-MB1	500587
18:12	MP41909-B1	503594
18:28	MP41909-MB1	504525
18:33	MP41909-LC1	533504
18:38	MP41909-S1	534347
18:44	MP41909-S2	534776
18:49	J77963-1	536065
18:55	MP41909-SD1	511070
19:00	ZZZZZZ	539717
19:05	MA20235-CCV9	500119
19:11	MA20235-CCB9	500991
19:16	ZZZZZZ	537872
19:22	ZZZZZZ	538582
19:27	ZZZZZZ	523781
19:33	ZZZZZZ	530971
19:38	ZZZZZZ	587648
19:43	ZZZZZZ	544047

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Earth Amboy

File ID: IR121207M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20235

Time	Sample Description	Istd#L
19:49	ZZZZZZ	530947
19:54	ZZZZZZ	535856
20:00	ZZZZZZ	529358
20:05	MA20235-CCV9	510827
20:11	MA20235-CCB10	505302
20:16	ZZZZZZ	539452
20:22	ZZZZZZ	536940
20:27	MP41873-MB2	490639
20:32	MP41873-LC1	506095
20:38	ZZZZZZ	494593
20:43	ZZZZZZ	492303
20:48	ZZZZZZ	515651
20:54	ZZZZZZ	506678
20:59	ZZZZZZ	517902
21:05	MA20235-CCV10	508081
21:20	MA20235-CCB11	515670
21:26	ZZZZZZ	499754
21:31	ZZZZZZ	504683
21:37	ZZZZZZ	495828
21:42	ZZZZZZ	502072
21:47	ZZZZZZ	501085
21:53	ZZZZZZ	500238
21:58	ZZZZZZ	501648
22:03	ZZZZZZ	490795
22:09	ZZZZZZ	504175
22:14	MA20235-CCV11	507258
22:20	MA20235-CCB12	504642
22:25	ZZZZZZ	512240
22:31	ZZZZZZ	507988
22:36	ZZZZZZ	508869
22:42	ZZZZZZ	511673
22:47	MP41882-S1	549466
22:52	MP41882-S2	547957

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20235

Time	Sample Description	Istd#1
22:58	ZZZZZZ	560667
23:03	MP41882-SD1	524245
22:09	MP41826-MB3	496229
23:14	MA20235-CCY12	507357
23:20	MA20235-CCB13	505839
23:51	MA20235-CRIB3	503273
23:56	MA20235-ICSA3	483696
00:02	MA20235-TC5AB3	483647
00:07	MA20235-CCV13	505810
00:13	MA20235-CCB14	506344
00:19	MP41826-MB3	491387
00:24	MP41826-LC2	507227
00:29	J78054-1A	497640
00:35	J78054-2A	493958
00:40	J78054-3A	499812
00:45	J78054-4A	489601
00:51	MP41906-MB1	511722
00:56	MP41906-B1	515990
01:01	MP41906-S1	508082
01:07	MP41906-S2	509450
01:12	MA20235-CCV14	507136
01:18	MA20235-CCB15	505909
01:23	J77722-3R	510127
01:29	MP41906-SD1	507395
01:34	ZZZZZZ	493381
01:39	ZZZZZZ	499990
01:45	ZZZZZZ	490154
01:50	ZZZZZZ	489901
01:56	ZZZZZZ	495484
02:01	MP41904-MB1	515644
02:06	MP41904-B1	518910
02:12	MA20235-CCV15	507395
02:17	MA20235-CCB16	508153

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1R121207M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20235

Time	Sample Description	Istd#1
02:23	MP41904-S1	489112
02:28	MP41904-S2	486614
02:34	J78053-1	489581
02:39	MP41904-SD1	506204
02:45	ZZZZZZ	506196
02:50	MP41880-PS1	531669
02:55	ZZZZZZ	506583
03:01	MP41895-PS1	562292
03:06	ZZZZZZ	525377
03:12	MA20235-CCV16	502630
03:17	MA20235-CCB17	505813
07:34	MA20235-CR1B4	511612
07:40	MA20235-ICSA4	482253
07:45	MA20235-ICSA6	482304
07:51	MA20235-CCV17	502725
07:57	MA20235-CCB18	499366
08:04	ZZZZZZ	551629
08:11	ZZZZZZ	592939
08:16	ZZZZZZ	489838
08:21	ZZZZZZ	511997
08:27	ZZZZZZ	522378
08:33	ZZZZZZ	512618
08:40	MP41893-S1	535148
08:45	MP41893-S2	538328
08:50	MP41893-SD1	514188
08:56	MA20235-CCV18	500626
09:01	MA20235-CCB19	512069
09:11	MP41893-B1	508993
09:15	ZZZZZZ	511960
09:20	MA20235-ICSA5	480735
09:25	MA20235-ICSA6	482731
09:31	MA20235-CCV19	502309
09:36	MA20235-CCB20	503961

R = Reference for ISTD limits. ! = Outside limits.

INTERNAL STANDARD SUMMARY

Login Number: J78054
 Account: EHTXF - Entact Houston
 Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT
 Analyst: ND
 Parameters: Pb

Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
 Run ID: MA20235

Sample		
Time	Description	Istd#1

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium	60-125 %

5.2.1

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: ESTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT
QC Limits: result < RL

Date Analyzed: 12/12/07
Run ID: MA20235
Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:			11:32		11:44		12:11		13:19	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	19	anr							
Antimony	6.0	5.1	anr							
Arsenic	8.0	3.1	anr							
Barium	200	.4	anr							
Beryllium	1.0	.1	anr							
Cadmium	4.0	.8	anr							
Calcium	5000	22	anr							
Chromium	10	1.1	anr							
Cobalt	50	1.1	anr							
Copper	25	3.4	anr							
Iron	100	55	anr							
Lead	5.0	3.5	0.31	<3.0	1.9	<3.0	0.45	<3.0	2.3	<20
Magnesium	5000	7.6	anr							
Manganese	15	.6	anr							
Nickel	40	2.3	anr							
Potassium	10000	61	anr							
Selenium	10	3.5	anr							
Silver	10	2.3	anr							
Sodium	10000	450	anr							
Thallium	10	7.7	anr							
Vanadium	50	2.7	anr							
Zinc	20	1.4	anr							

(*) Outside of QC limits
(anr) Analyte not requested

5.2.2

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Enact Houston
Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA20235 Units: ug/l

Time: Sample ID:			14:24 CCB4	15:30 CCB5		16:27 CCB6		17:01 CCB7		
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	39	anr							
Antimony	6.0	5.1	anr							
Arsenic	8.0	3.3	anr							
Barium	200	.4	anr							
Beryllium	1.0	.1	anr							
Cadmium	4.0	.8	anr							
Calcium	5000	22	anr							
Chromium	10	1.1	anr							
Cobalt	50	1.1	anr							
Copper	25	3.4	anr							
Iron	100	55	anr							
Lead	3.0	3.5	0.13	<20	0.31	<20	0.78	<20	0.084	<20
Magnesium	5000	7.6	anr							
Manganese	15	.6	anr							
Nickel	40	2.3	anr							
Potassium	10000	61	anr							
Selenium	10	3.5	anr							
Silver	10	2.3	anr							
Sodium	10000	450	anr							
Thallium	10	7.7	anr							
Vanadium	50	2.7	anr							
Zinc	20	1.4	anr							

(*) Outside of QC limits
(anr) Analyte not requested

5.2.2

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Enact Houston
Project: Chevron, Parth Amboy

File ID: ER121207M1.DAT Date Analyzed: 12/12/07 Method: EPA 200.7, SW846 6010B
QC Limits: result < PL Run ID: MA20235 Units: ug/l

Time:			18:01	19:11		20:11		21:20	
Sample ID:			CCB8	CCB9		CCB10		CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw
Aluminum	200	19	anr						
Antimony	6.0	5.1	anr						
Arsenic	8.0	3.1	anr						
Barium	200	.4	anr						
Beryllium	1.0	.1	anr						
Cadmium	4.0	.8	anr						
Calcium	5000	22	anr						
Chromium	10	1.1	anr						
Cobalt	50	1.1	anr						
Copper	25	3.4	anr						
Iron	100	55	anr						
Lead	3.0	2.5	2.1	<20	1.8	<20	0.29	<20	0.26
Magnesium	5000	7.6	anr						
Manganese	15	.6	anr						
Nickel	40	2.3	anr						
Potassium	10000	61	anr						
Selenium	10	3.5	anr						
Silver	10	2.3	anr						
Sodium	10000	450	anr						
Thallium	10	2.7	anr						
Vanadium	50	2.7	anr						
Zinc	20	1.4	anr						

(*1 Outside of QC limits
(anr) Analyte not requested

5.2.2

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Entract Houston
Project: Chevron, Perth Amboy

File ID: 1R121207M1.DAT Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA20235 Units: ug/l

Time: Sample ID:			22:20 CCB12	23:20 CCB13	00:13 CCB14	01:18 CCB15				
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	19	anr							
Antimony	6.0	5.1	anr							
Arsenic	8.0	3.1	anr							
Barium	200	.4	anr							
Beryllium	1.0	.1	anr							
Cadmium	4.0	.8	anr							
Calcium	5000	22	anr							
Chromium	10	1.1	anr							
Cobalt	50	1.1	anr							
Copper	25	3.4	anr							
Iron	100	55	anr							
Lead	3.0	3.5	0.23	<20	0.69	<20	1.7	<20	1.2	<20
Magnesium	5000	7.6	anr							
Manganese	15	.6	anr							
Nickel	40	2.3	anr							
Potassium	10000	61	anr							
Selenium	10	3.5	anr							
Silver	10	2.3	anr							
Sodium	10000	450	anr							
Thallium	10	7.7	anr							
Vanadium	50	2.7	anr							
Zinc	20	1.4	anr							

(*) Outside of QC limits
(anr) Analyte not requested

5.2.2

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Estact Houston
Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA20235 Units: ug/l

Time:			02:17		03:17		07:57	
Sample ID:			CCB16		CCB17		CCB18	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	19	anr					
Antimony	6.0	5.1	anr					
Arsenic	8.0	3.1	anr					
Barium	200	.4	anr					
Beryllium	1.0	.1	anr					
Cadmium	4.0	.8	anr					
Calcium	5000	22	anr					
Chromium	30	1.1	anr					
Cobalt	50	1.1	anr					
Copper	25	3.4	anr					
Iron	100	55	anr					
Lead	3.0	3.5	-0.36	<20	0.94	<20	0.47	<20
Magnesium	5000	7.6	anr					
Manganese	15	.6	anr					
Nickel	40	2.3	anr					
Potassium	10000	61	anr					
Selenium	10	3.5	anr					
Silver	10	2.3	anr					
Sodium	10000	450	anr					
Thallium	10	7.7	anr					
Vanadium	50	2.7	anr					
Zinc	20	1.4	anr					

(*) Outside of QC limits
(anr) Analyte not requested

5.2.2
5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IRI2I207M1.DAT Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20235 Units: ug/l

Time:		11:27		12:06			13:13		
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	1000	1000	100.0	2000	1930	96.5	2000	1980	99.0
Magnesium	anr								
Manganese	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

5.2.3

5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20235 Units: ug/l

Time:		14:18		15:24		16:22			
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2500	1970	98.5	2400	1970	98.5	2000	1990	99.5
Magnesium	anr								
Manganese	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

5.2.3

5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: JF121207M1.DAT Date Analyzed: 12/12/07 Methods: EPA 200.7, SN84E 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20235 Units: ug/l

Time:		16:56			17:55			19:05		
Sample ID:		CCV			CCV			CCV		
Metal		True			True			True		
		Results	% Rec		Results	% Rec		Results	% Rec	
Aluminum	anr									
Antimony	anr									
Arsenic	anr									
Barium	anr									
Beryllium	anr									
Cadmium	anr									
Calcium	anr									
Chromium	anr									
Cobalt	anr									
Copper	anr									
Iron	anr									
Lead	2000	1970	98.5		2000	1950	97.5	2000	1980	99.0
Magnesium	anr									
Manganese	anr									
Nickel	anr									
Potassium	anr									
Selenium	anr									
Silver	anr									
Sodium	anr									
Thallium	anr									
Vanadium	anr									
Zinc	anr									

(*) Outside of QC limits
(anr) Analyte not requested

5.2.3

5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Arboy

File ID: IR12I207M1.DAT Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20235 Units: ug/l

Time:		20:05		21:05		22:14	
Sample ID:	CCV	CCV9	CCV	CCV10	CCV	CCV11	
Metal	True	Results % Rec	True	Results % Rec	True	Results % Rec	
Aluminum	anr						
Antimony	anr						
Arsenic	anr						
Barium	anr						
Beryllium	anr						
Cadmium	anr						
Calcium	anr						
Chromium	anr						
Cobalt	anr						
Copper	anr						
Iron	anr						
Lead	2000	1960 98.0	2000	1990 99.5	2000	1990 99.5	
Magnesium	anr						
Manganese	anr						
Nickel	anr						
Potassium	anr						
Selenium	anr						
Silver	anr						
Sodium	anr						
Thallium	anr						
Vanadium	anr						
Zinc	anr						

(*) Outside of QC limits
(anr) Analyte not requested

5.2.3
5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IRI21207M1.DAT Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20235 Units: ug/l

Time:		23:14		00:07		01:12			
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	1990	99.5	2000	1980	99.0	2000	1980	99.0
Magnesium	anr								
Manganese	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

5.2.3

5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Pesth Amboy

File ID: FR121207M1.DAT Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20235 Unitg: ug/l

Time:		02:12		03:12		07:51			
Sample ID:	CCV	CCV15		CCV	CCV16		CCV	CCV17	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2020	101.0	2000	2520	101.0	2000	2030	101.5
Magnesium	anr								
Manganese	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Thallium	anr								
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

5.2.3

5

HIGH STANDARD CHECK SUMMARY

Login Number: J78054
 Account: EHTXF - Entact Houston
 Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT
 QC Limits: 95 to 105 % Recovery

Date Analyzed: 12/12/07
 Run ID: MA20235

Methods: EPA 200.7, SW846 6010B
 Units: ug/l

Time:	11:10
Sample ID:	HSTD HSTD1
Metal	True Results % Rec

Aluminum	anr
Antimony	anr
Arsenic	anr
Barium	anr
Beryllium	anr
Cadmium	anr
Calcium	anr
Chromium	anr
Cobalt	anr
Copper	anr
Iron	anr
Lead	4000 3920 98.0
Magnesium	anr
Manganese	anr
Nickel	anr
Potassium	anr
Selenium	anr
Silver	anr
Sodium	anr
Thallium	anr
Vanadium	anr
Zinc	anr

(*) Outside of QC limits
 (anr) Analyte not requested

5.2.4

5

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 50 to 150 % Recovery Run ID: MA20235 Units: ug/l

Time:	11:21
Sample ID: CRI	CRI1
Metal True	True
Results	% Rec

Aluminum

Antimony 120 10

Arsenic 20 20

Barium 400

Beryllium 10 2.0 anr

Cadmium 10

Calcium

Chromium 20

Cobalt 100

Copper 50

Iron

Lead 6.0 6.0

Magnesium

Manganese 30

Nickel 80

Potassium

Selenium 10 10

Silver 20

Sodium

Thallium 20 20

Vanadium 100

Zinc 40

(*) Outside of QC limits
(anr) Analyte not requested

5.2.5

5

INITIAL LOW CALIBRATION CHECK STANDARD SUMMARY

Login Number: 578054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1R121207M1.DAT Date Analyzed: 12/12/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 50 to 150 % Recovery Run ID: MA20235 Units: ug/l

Metal	Sample ID:	Time:	11:16		16:33		23:51		07:34	
			CR1B1	CR1B2	CR1B3	CR1B4	CR1B1	CR1B2	CR1B3	CR1B4
			Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum		400								
Antimony		12								
Arsenic		16								
Barium		400								
Beryllium		2.0								
Cadmium		8.0								
Calcium		5000								
Chromium		20								
Cobalt		100								
Copper		50								
Iron		200								
Lead		6.0	8.0	133.3	6.7	111.7	7.4	123.3	5.9	98.3
Magnesium		5000								
Manganese		30								
Nickel		80								
Potassium		10000								
Selenium		20								
Silver		20								
Sodium		10000								
Thallium		20								
Vanadium		100								
Zinc		40								

(*) Outside of QC limits
(anr) Analyte not requested

5.2.6



INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: J78054
Account: ERTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IR121207M1.DAT
QC Limits: 60 to 120 % Recovery

Date Analyzed: 12/12/07
Run ID: MA20235

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:		11:54		12:00		16:40		16:46		
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	531000	106.2	547000	109.4	529000	105.8	548000	109.6
Antimony		1000	9.5		1010	101.0	1.8		1010	101.0
Arsenic		1000	-2.6		991	99.1	-0.43		1010	101.0
Barium		500	-0.45		524	106.8	-0.27		530	106.0
Beryllium		500	0.25		488	97.6	0.17		494	98.8
Cadmium		1000	1.7		983	98.3	2.1		990	99.0
Calcium	400000	400000	369000	92.3	369000	92.3	368000	92.0	371000	92.8
Chromium		500	-1.6		489	97.8	-2.2		494	98.8
Cobalt		500	-0.40		471	94.2	-1.5		476	95.2
Copper		500	-5.2		514	102.8	-4.9		516	103.2
Iron	200000	200000	196000	98.0	200000	100.0	196000	98.0	202000	101.0
Lead		1000	3.9		974	97.4	0.32		982	98.2
Magnesium	500000	500000	538000	107.6	537000	107.4	542000	108.6	546000	109.2
Manganese		500	-6.4		486	97.2	-6.0		490	98.0
Nickel		1000	2.9		940	94.0	2.1		943	94.3
Potassium			281		278		232		232	
Selenium		1000	-6.1		1000	100.0	-1.1		1020	102.0
Silver		1000	-0.84		1120	112.0	-1.6		1130	113.0
Sodium			325		235		210		282	
Thallium		1000	5.9		925	93.5	-8.2		946	94.6
Vanadium		500	-0.16		503	100.6	-0.43		506	101.2
Zinc		1000	1.1		1040	104.0	2.9		1050	105.0

(*) Outside of QC limits
(anr) Analyte not requested

5.2.7

5

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1R121207M1.DAT
QC Limits: 80 to 120 % Recovery

Date Analyzed: 12/12/07
Run ID: MA20235

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:	23:56		00:02		07:40		07:45	
Sample ID:	1CSA	ICSAB	ICSAB3	ICSAB3	ICSAB4	ICSAB4	ICSAB4	ICSAB4
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	524000	104.8	541000	108.2	532000	106.4
Antimony		1000	8.8		1010	101.0	7.7	101.0
Arsenic		1000	-2.7		1020	102.0	-5.9	102.0
Barium		500	-0.43		523	104.6	-0.43	530
Beryllium		500	0.12		488	97.6	0.12	496
Cadmium		1000	1.7		979	97.9	1.4	991
Calcium	400000	400000	366000	91.5	367000	91.8	373000	93.3
Chromium		500	-1.3		487	97.4	-1.3	492
Cobalt		500	-1.3		468	93.6	-0.87	475
Copper		500	-5.1		511	102.2	-5.7	516
Iron	200000	200000	194000	97.0	199000	99.5	198000	99.0
Lead		1000	3.2		972	97.2	5.1	985
Magnesium	500000	500000	539000	107.8	539000	107.8	547000	109.4
Manganese		500	-6.0		483	96.6	-6.5	489
Nickel		1000	3.4		934	93.4	2.0	945
Potassium			279		285		273	268
Selenium		1000	-9.2		1010	101.0	-12	1020
Silver		1000	-0.47		1110	111.0	0.25	1120
Sodium			472		223		382	50.5
Thallium		1000	0.97		937	93.7	-5.7	944
Vanadium		500	-0.17		499	99.8	-0.39	504
Zinc		1000	2.1		1040	104.0	0.69	1050

(*) Outside of QC limits
(anr) Analyte not requested

5.2.7

5

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EPTX - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP
Analyst: RP
Parameters: Pb

Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20282

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:32	MA20282-STD1	1		STDA
14:39	MA20282-STD2	1		STDB
14:46	MA20282-CCV1	1		
14:53	MA20282-CCB1	1		
15:03	MA20282-STD3	1		STDB
15:12	MA20282-CCV2	1		
15:21	MA20282-HSTD1	1		
15:29	MA20282-CRYB1	1		
15:35	MA20282-CRIA1	1		
15:44	MA20282-ICV1	1		
15:55	MA20282-ICB1	1		
16:04	MA20282-ICCV1	1		
16:18	MA20282-CCB2	1		
16:28	MA20282-ICSA1	1		
16:37	MA20282-ICSA1	1		
16:46	MA20282-CCV3	1		
16:52	MA20282-CCB3	1		
16:59	MP42017-MB1	1		
17:06	MP42017-LC1	1		
17:13	MP42017-S1	1		
17:20	MP42017-S2	1		
17:27	J78823-11	1		(sample used for QC only; not part of login J78054)
17:34	MP42017-SD1	5		
17:41	ZZZZZZ	1		
17:48	ZZZZZZ	1		
17:55	MA20282-CCV4	1		
18:02	MA20282-CCB4	1		
18:09	ZZZZZZ	1		
18:16	ZZZZZZ	1		
18:23	ZZZZZZ	1		
18:30	ZZZZZZ	1		
18:37	ZZZZZZ	1		
18:44	ZZZZZZ	1		

5.3
5

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP
Analyst: RP
Parameters: Pb

Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20282

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:51	ZZ22Z2	1		
18:58	ZZZZ22	1		
19:05	MA20282-CCV5	1		
19:12	MA20282-CCB5	1		
19:18	MA20282-CRIB2	1		
19:25	MA20282-CRZA2	1		
19:32	MA20282-ICSA2	1		
19:39	MA20282-ICSAB2	1		
19:47	MA20282-CCV6	1		
19:54	MA20282-CCB6	1		
20:00	MP42014-MB1	1		
20:07	MP42014-LC1	1		
20:14	MP42014-B1	1		
20:21	MP42014-S1	1		Na overrange.
20:28	MP42014-S2	1		Na overrange.
20:35	J78128-1	1		(sample used for QC only; not part of login J78054)
20:42	MP42014-SD1	5		J78128-1 used.
20:49	J78128-2	1		(sample used for QC only; not part of login J78054)
20:56	ZZZZZ2	1		
21:03	MA20282-CCV7	1		
21:10	MA20282-CCB7	1		
21:17	ZZ22Z2	1		
21:24	ZZ22Z2	1		
21:31	ZZ22Z2	1		
21:38	ZZ22Z2	1		
21:45	ZZ22Z2	1		
21:52	ZZZZZZ	1		
21:58	ZZ22Z2	1		
22:05	ZZ22Z2	1		
22:13	ZZ22Z2	1		
22:19	ZZZZZ2	1		
22:26	MA20282-CCV8	1		
22:33	MA20282-CCB8	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.TCP
Analyst: RP
Parameters: Pb

Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20282

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:40	ZZZZZZ	1		
22:47	ZZZZZZ	1		
22:54	ZZZZZZ	1		
23:01	ZZZZZZ	1		
23:08	ZZZZZZ	1		
23:15	ZZZZZZ	1		
23:22	ZZZZZZ	1		
23:29	MP42015-MB1	1		CCV RSD high.
23:36	MP42015-LC1	1		CCV RSD high.
23:43	MA20282-CCV9	1		
23:50	MA20282-CCB9	1		
23:57	MP42015-S1	1		
00:04	MP42015-S2	1		
00:11	J78242-1	1		(sample used for QC only; not part of login J78054)
00:18	MP42015-SB1	5		
00:25	ZZZZZZ	1		
00:32	ZZZZZZ	1		
00:38	ZZZZZZ	1		
00:45	ZZZZZZ	1		
00:52	ZZZZZZ	1		
00:59	ZZZZZZ	1		
01:06	MA20282-CCV10	1		
01:13	MA20282-CCB10	1		
01:20	ZZZZZZ	1		
01:27	ZZZZZZ	1		
01:34	ZZZZZZ	1		
01:41	ZZZZZZ	1		
01:48	ZZZZZZ	1		
01:55	ZZZZZZ	1		
02:01	ZZZZZZ	1		
02:08	ZZZZZZ	1		
02:16	ZZZZZZ	1		
02:23	ZZZZZZ	1		

5.3
5

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: ESTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: GA122107M1.ICP
Analyst: RP
Parameters: Pb

Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20282

Time	Sample Description	Dilution Factor	95 Recov	Comments
02:30	MA20282-CCV11	1		
02:37	MA20282-CCB11	1		
02:44	MA20282-ICSA3	1		
02:51	MA20282-ICSAB3	1		
02:58	MA20282-CCV12	1		
03:05	MA20282-CCB12	1		
03:11	ZZZZZZ	1		
03:19	ZZZZZZ	1		
03:26	ZZZZZZ	1		
03:33	ZZZZZZ	1		
03:39	MP42010-MB1	1		
03:46	MP42010-B1	1		
03:53	MP42010-S1	1		
04:00	MP42010-S2	1		
04:07	J78673-8	1		(sample used for QC only; not part of login J78054)
04:14	MP42010-SD1	5		
04:21	MA20282-CCV13	1		
04:28	MA20282-CCB13	1		
04:35	ZZZZZZ	1		
04:42	ZZZZZZ	1		
04:49	ZZZZZZ	1		
04:56	ZZZZZZ	1		
05:02	ZZZZZZ	1		
05:09	ZZZZZZ	1		
05:16	ZZZZZZ	1		
05:23	ZZZZZZ	1		
05:30	ZZZZZZ	1		
05:37	J78054-1	1		
05:44	MA20282-CCV14	1		
05:51	MA20282-CCB14	1		
05:58	J78054-2	1		
06:05	J78054-3	1		
06:11	J78054-4	1		Mn=39ppm.
Last reportable sample/prep for job J78054				

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP
Analyst: RP
Parameters: Pb

Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20282

Time	Sample Description	Dilution PS Factor	Recov	Comments
06:18	ZZZZZZ	1		
06:25	ZZZZZZ	1		
06:33	ZZZZZZ	1		
06:40	ZZZZZZ	1		
06:48	ZZZZZZ	1		
06:55	ZZZZZZ	1		
07:02	MA20282-DCV15	1		
07:08	MA20282-CCB15	1		
07:15	MA20282-ICSA4	1		
07:22	MA20282-ICSA4	1		
07:29	MA20282-CCV16	1		
07:36	MA20282-CCS16	1		
-----> Last reportable CCB for job J78054 Refer to raw data for calibration curve and standards.				

5.3
5

INTERNAL STANDARD SUMMARY

Login Number: J78054
 Account: EHTXF - Entact Houston
 Project: Chevron, Perch Amboy

File ID: SA122107M1.ICP
 Analyst: RP
 Parameters: Pb

Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
 Run ID: MA20282

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
14:32	MA20282-STD1	4260 R	169270 R	36681 R	7794 R
14:39	MA20282-STD2	4029	159100	35308	7107
14:46	MA20282-CCV1	4170	161780	34172	7373
14:53	MA20282-CCB1	4301	169300	35898	7844
15:03	MA20282-STD3	4050	158480	33937	7077
15:12	MA20282-CCV2	4137	163740	35476	7360
15:21	MA20282-HSTD1	4016	157370	33956	7024
15:29	MA20282-CRIB1	4289	167310	35460	7775
15:35	MA20282-CRIA1	4283	168750	36056	7771
15:44	MA20282-ICV1	4292	166700	34792	7732
15:55	MA20282-ICB1	4294	167380	33709	7788
16:04	MA20282-ICCV1	4129	162920	34674	7382
16:18	MA20282-CCB2	4297	164090	35063	7819
16:28	MA20282-ICSA1	3739	148830	34159	6332
16:37	MA20282-ICSAB1	3746	148420	33545	6406
16:46	MA20282-CCV3	4201	160680	34864	7384
16:52	MA20282-CCB3	4332	168190	34510	7887
16:59	MP42017-MB1	4296	169840	36013	7859
17:06	MP42017-LC1	4307	166800	34617	7751
17:13	MP42017-S1	4053	160680	35271	7766
17:20	MP42017-S2	4094	158990	33594	7253
17:27	J78823-11	4129	163260	35347	7474
17:34	MP42017-SD1	4382	169310	36085	7877
17:41	ZZZZZZ	4172	163420	35031	7487
17:48	ZZZZZZ	4316	171020	35905	7879
17:55	MA20282-CCV4	4242	164130	34780	7484
18:02	MA20282-CCB4	4356	169890	35797	7891
18:09	ZZZZZZ	4258	164630	35203	7679
18:16	ZZZZZZ	4241	167850	35742	7721
18:23	ZZZZZZ	4165	159360	33385	7426
18:30	ZZZZZZ	3964	154290	33881	6963
18:37	ZZZZZZ	4246	161940	33388	7535
18:44	ZZZZZZ	3979	155510	33908	7037

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Enbridge Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP
Analyst: RP
Parameters: Pb

Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20282

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:51	ZZZZZZ	4239	161730	33129	7556
18:58	ZZZZZZ	4394	169320	34233	7903
19:05	MA20282-CCV5	4285	161390	32664	7440
19:12	MA20282-CCB5	4401	169400	34954	7943
19:18	MA20282-CRFB2	4290	163880	31869	7760
19:25	MA20282-CRFA2	4418	169750	34160	7915
19:32	MA20282-ICSA2	3867	147160	31537	6481
19:39	MA20282-ICSA2	3841	149040	32291	6500
19:47	MA20282-CCV6	4261	160110	32602	7413
19:54	MA20282-CCB6	4410	166710	32898	7887
20:00	MP42014-MB1	4383	164910	32962	7806
20:07	MP42014-LC1	4375	166810	34060	7804
20:14	MP42014-B1	4308	163020	33201	7589
20:21	MP42014-S1	3638	140560	31989	6169
20:28	MP42014-S2	3657	139460	31951	6163
20:35	J78128-1	3685	144600	32982	6306
20:42	MP42014-SD1	4190	157690	32616	7342
20:49	J78128-2	3668	141480	32203	6251
20:56	ZZZZZZ	4051	155390	33426	7099
21:03	MA20282-CCV7	4246	164590	34244	7445
21:10	MA20282-CCB7	4402	165170	32697	7812
21:17	ZZZZZZ	4056	155050	33042	7108
21:24	ZZZZZZ	4174	158740	34105	7359
21:31	ZZZZZZ	4419	168040	34089	7932
21:38	ZZZZZZ	4395	166160	33131	7834
21:45	ZZZZZZ	4236	163450	33803	7595
21:52	ZZZZZZ	4256	161430	32956	7560
21:58	ZZZZZZ	3544	138410	22031	6003
22:05	ZZZZZZ	3925	151220	32301	6898
22:13	ZZZZZZ	4297	167340	35196	7607
22:19	ZZZZZZ	3820	146580	32171	6543
22:26	MA20282-CCV8	4278	160690	30457	7410
22:33	MA20282-CCB8	4411	165970	32460	7849

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP
Analyst: RP
Parameters: Pb

Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20282

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
22:40	ZZZZZZ	4382	167870	54441	7898
22:47	ZZZZZZ	4389	166710	33361	7869
22:54	ZZZZZZ	4146	159600	32947	7269
23:01	ZZZZZZ	3981	156860	32171	6848
23:08	ZZZZZZ	4406	169240	34284	7827
23:15	ZZZZZZ	4223	159920	33308	7427
23:22	ZZZZZZ	4064	151180	30612	6938
23:29	MP42015-MB1	4419	170360	34253	7971
23:36	MP42015-LC1	4392	165790	32895	7798
23:43	MA20282-CCV9	4285	162870	33252	7505
23:50	MA20282-CCB9	4426	165160	32607	7859
23:57	MP42015-S1	4034	155230	32816	7003
00:04	MP42015-S2	4028	153470	32920	6990
00:11	J78242-1	4093	153690	32899	7158
00:18	MP42015-SD1	4346	162770	33016	7749
00:25	ZZZZZZ	4234	160110	31948	7495
00:32	ZZZZZZ	4265	164030	33392	7641
00:38	ZZZZZZ	4217	160880	32251	7492
00:45	ZZZZZZ	4251	163020	32517	7560
00:52	ZZZZZZ	4214	161580	32933	7508
00:59	ZZZZZZ	4199	160650	34378	7389
01:06	MA20282-CCV10	4281	162970	32587	7458
01:13	MA20282-CCB10	4408	164390	32151	7864
01:20	ZZZZZZ	4234	163090	33376	7507
01:27	ZZZZZZ	4047	153970	31338	7023
01:34	ZZZZZZ	4054	156920	32361	7134
01:41	ZZZZZZ	3451	139210	29607	6221
01:48	ZZZZZZ	4449	162740	33104	7806
01:55	ZZZZZZ	3375	130900	30771	5675
02:01	ZZZZZZ	3653	139160	30124	6103
02:08	ZZZZZZ	3647	140980	31240	6158
02:16	ZZZZZZ	4177	157840	32424	7284
02:23	ZZZZZZ	4258	158950	32236	7447

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 9A122107M1.ICP
Analyst: RP
Parameters: Pb

Date Analyzed: 12/21/07
Run ID: MA20282
Methods: EPA 200.7, SW846 6010B

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
02:30	MA20282-CCV11	4291	164000	33548	7625
02:37	MA20282-CCB11	4535	166190	32224	7975
02:44	MA20282-ICSA3	3993	145670	32106	6662
02:51	MA20282-ICSA3	3959	148010	30931	6592
02:58	MA20282-CCV12	4369	160380	31219	7512
03:05	MA20282-CCB12	4498	167230	32608	7994
03:11	ZZZZZZ	4091	154790	30285	7096
03:19	ZZZZZZ	4536	167840	33437	7975
03:26	ZZZZZZ	4527	167860	32350	7972
03:33	ZZZZZZ	4523	166080	31948	7955
03:39	MP42010-MB1	4506	170400	33777	8063
03:46	MP42010-B1	4444	164630	32373	7749
03:53	MP42010-S1	4485	171220	34868	7370
04:00	MP42010-S2	4489	170470	34653	7493
04:07	J78673-8	4559	169370	33517	7529
04:14	MP42010-SD1	4521	171000	34350	7920
04:21	MA20282-CCV13	4377	163410	32626	7599
04:28	MA20282-CCB13	4504	164750	33537	7907
04:35	ZZZZZZ	4625	172410	34744	7734
04:42	ZZZZZZ	4771	175840	34909	7680
04:49	ZZZZZZ	4596	173820	35426	7699
04:56	ZZZZZZ	4771	174840	35136	7792
05:02	ZZZZZZ	4600	168750	33103	7658
05:09	ZZZZZZ	4623	176010	35943	7735
05:16	ZZZZZZ	4636	170740	34438	7764
05:23	ZZZZZZ	4665	171970	35475	7812
05:30	ZZZZZZ	4612	172570	34476	7750
05:37	J78054-1	4478	168540	33041	7782
05:44	MA20282-CCV14	4356	165250	33983	7629
05:51	MA20282-CCB14	4512	166850	32263	7378
05:58	J78054-2	4499	172990	35632	7535
06:05	J78054-3	4575	172600	34412	7746
06:11	J78054-4	4449	169270	35505	6711

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.1CP
Analyst: RP
Parameters: Pb

Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20282

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
06:18	ZZZZZZ	4960	188450	38536	7524
06:25	ZZZZZZ	4667	173990	34752	7763
06:33	ZZZZZZ	4564	169350	33031	7753
06:40	ZZZZZZ	4101	163020	35015	7128
06:48	ZZZZZZ	4518	169440	33946	7794
06:55	ZZZZZZ	4534	153580	34673	7781
07:02	MA20282-CCV15	4353	163070	32537	7569
07:08	MA20282-CCB15	4439	165320	32008	7828
07:15	MA20282-1CEA4	3861	150850	32223	6429
07:22	MA20282-1CSAB4	3879	149480	31600	6500
07:29	MA20282-CCV16	4370	162050	31578	7536
07:36	MA20282-CCB16	4537	168810	33223	8059

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3690)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

5.3.1

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Pech Amboy

File ID: SA122107M1.ICP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC limits: result < RL Run ID: MA20282 Units: ug/l

Time:			14:53		15:55		16:18		16:52	
Sample ID:			CCB1		ICB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	13	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.7	anr							
Barium	200	.3	anr							
Beryllium	1.0	.1	anr							
Boron	100	1								
Cadmium	4.0	.09	anr							
Calcium	5000	14	anr							
Chromium	10	.4	anr							
Cobalt	50	.3	anr							
Copper	25	3.3	anr							
Iron	100	2.1	anr							
Lead	3.0	1	0.20	<3.0	-0.40	<3.0	0.20	<3.0	0.0	<3.0
Magnesium	5000	22	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4	anr							
Nickel	40	.3	anr							
Palladium	50	2.5								
Potassium	10000	53	anr							
Selenium	10	2	anr							
Silicon	200	2.6								
Silver	10	.5	anr							
Sodium	10000	14	anr							
Strontium	10	.2								
Thallium	2.0	.9	anr							
Tin	10	.5								
Titanium	10	.4								
Vanadium	50	.3	anr							
Zinc	20	1.5	anr							

(*) Outside of QC limits
(anr) Analyte not requested

5.3.2

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.JCP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA20282 Units: ug/l

Time:			18:02		19:12		19:54		21:10	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDJ	raw	final	raw	final	raw	final	raw	final
Aluminum	200	13	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.7	anr							
Barium	200	.3	anr							
Beryllium	1.0	.1	anr							
Boron	100	1								
Cadmium	4.0	.09	anr							
Calcium	5000	14	anr							
Chromium	10	.4	anr							
Cobalt	50	.3	anr							
Copper	25	3.3	anr							
Iron	100	2.1	anr							
Lead	3.0	1	0.60	<3.0	0.20	<3.0	0.40	<3.0	<0.10	<3.0
Magnesium	5000	22	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4	anr							
Nickel	40	.3	anr							
Palladium	50	2.5								
Potassium	10000	53	anr							
Selenium	10	2	anr							
Silicon	200	2.6								
Silver	10	.5	anr							
Sodium	10000	14	anr							
Strontium	10	.2								
Thallium	2.0	.9	anr							
Tin	10	.5								
Titanium	10	.4								
Vanadium	50	.3	anr							
Zinc	20	1.5	anr							

(*) Outside of QC limits
(anr) Analyte not requested

5.3.2

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perih Amboy

File ID: SA122107M1.ECP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA20282 Units: ug/l

Time: Sample ID:			22:33 CCB8		23:50 CCB9		01:13 CCB10		02:37 CCB11	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	13	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.7	anr							
Barium	200	.3	anr							
Beryllium	1.0	.1	anr							
Boron	100	1								
Cadmium	4.0	.09	anr							
Calcium	5000	14	anr							
Chromium	10	.4	anr							
Cobalt	50	.3	anr							
Copper	25	3.3	anr							
Iron	100	2.1	anr							
Lead	3.0	1	<0.10	<3.0	0.10	<3.0	0.10	<3.0	0.30	<3.0
Magnesium	5000	22	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4	anr							
Nickel	40	.3	anr							
Palladium	50	2.5								
Potassium	10000	53	anr							
Selenium	10	2	att							
Silicon	200	2.6								
Silver	10	.5	att							
Sodium	10000	14	anr							
Strontium	10	.2								
Thallium	2.0	.9	att							
Tin	10	.5								
Titanium	10	.4								
Vanadium	50	.3	anr							
Zinc	20	1.5	anr							

(*) Cutside of QC limits
(anr) Analyte not requested

5.32

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA20282 Units: ug/l

Time:			03:05	04:28		05:51		07:08		
Sample ID:			CCB12	CCB13		CCB14		CCB15		
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	13	anr							
Antimony	6.0	1	anr							
Arsenic	3.0	1.7	anr							
Barium	200	.3	anr							
Beryllium	1.0	.1	anr							
Boron	100	1								
Cadmium	4.0	.09	anr							
Calcium	5000	14	anr							
Chromium	10	.4	anr							
Cobalt	50	.3	anr							
Copper	25	3.3	anr							
Iron	100	2.1	anr							
Lead	3.0	1	0.0	<3.0	0.20	<3.0	0.20	<3.0	0.30	<3.0
Magnesium	5000	22	anr							
Manganese	15	.1	anr							
Molybdenum	20	.4	anr							
Nickel	40	.3	anr							
Palladium	50	2.5								
Potassium	10000	53	anr							
Selenium	10	2	anr							
Silicon	200	2.6								
Silver	10	.5	anr							
Sodium	10000	14	anr							
Strontium	10	.2								
Thallium	2.0	.9	anr							
Tin	10	.5								
Titanium	10	.4								
Vanadium	50	.3	anr							
Zinc	20	1.5	anr							

(*) Outside of QC limits
(anr) Analyte not requested

5.3.2

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.1CP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA20282 Units: ug/l

Time: Sample ID:		07:36 CCB16			
Metal	RL	IDL	raw	final	
Aluminum	200	13	anr		
Antimony	6.0	1	anr		
Arsenic	3.0	1.7	anr		
Barium	200	.3	anr		
Beryllium	1.0	.1	anr		
Boron	100	1			
Cadmium	4.0	.09	anr		
Calcium	5000	14	anr		
Chromium	10	.4	anr		
Cobalt	50	.3	anr		
Copper	25	3.3	anr		
Iron	100	2.1	anr		
Lead	3.0	1	0.10	<3.0	
Magnesium	5000	22	anr		
Manganese	15	.1	anr		
Molybdenum	20	.4	anr		
Nickel	40	.3	anr		
Palladium	50	2.5			
Potassium	10000	53	anr		
Selenium	10	2	anr		
Silicon	200	2.6			
Silver	10	.5	anr		
Sodium	10000	14	anr		
Strontium	10	.2			
Thallium	2.0	.9	anr		
Tin	10	.5			
Titanium	10	.4			
Vanadium	50	.3	anr		
Zinc	20	1.5	anr		

(*) Outside of QC Limits
(anr) Analyte not requested

5.3.2

5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20282 Units: ug/l

Time:		14:46		15:12		15:44	
Sample ID:		CCV		CCV		ICV	
Metal		True		True		True	
		Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	anr						
Antimony	anr						
Arsenic	anr						
Barium	anr						
Beryllium	anr						
Boron							
Cadmium	anr						
Calcium	anr						
Chromium	anr						
Cobalt	anr						
Copper	anr						
Iron	anr						
Lead	2000	2010	100.5	2000	2000	100.0	100.0
Magnesium	anr						
Manganese	anr						
Molybdenum	anr						
Nickel	anr						
Palladium							
Potassium	anr						
Selenium	anr						
Silicon							
Silver	anr						
Sodium	anr						
Strontium							
Thallium	anr						
Tin							
Titanium							
Vanadium	anr						
Zinc	anr						

(*) Outside of QC limits
(anr) Analyte not requested

5.3.3
5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20282 Units: ug/l

Time:		16:46		17:55		19:05			
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2000	100.0	2000	1980	99.0	2000	2010	100.5
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

5.3.3
5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J79054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SAI22107M1.ICP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20282 Units: ug/l

Time:		19:47		21:03			22:26		
Sample ID:	CCV	CCV6		CCV	CCV7		CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2010	100.5	2000	2000	100.0	2000	2000	100.0
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

5.3.3

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CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EMTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.1CP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20262 Units: ug/l

Time:		23:43		01:06		02:30			
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2005	1990	99.5	2000	2000	100.0	2000	1980	99.0
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

5.3.3

5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Enlact Houston
Project: Chevron, Perch Anboy

File ID: SAI22107M1.ICP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20282 Units: ug/l

Time:		02:58		04:21			05:44		
Sample ID:	CCV	CCV12		CCV	CCV13		CCV	CCV14	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2000	100.0	2000	1990	99.5	2000	1980	99.0
Magnesium	anr								
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

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CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20282 Units: ug/l

Time:		07:02		07:29	
Sample ID:		CCV		CCV	
Metal		True		True	
		Results	% Rec	Results	% Rec
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	anr				
Calcium	anr				
Chromium	anr				
Cobalt	anr				
Copper	anr				
Iron	anr				
Lead	2000	2000	100.0	2000	100.5
Magnesium	anr				
Manganese	anr				
Molybdenum	anr				
Nickel	anr				
Palladium					
Potassium	anr				
Selenium	anr				
Silicon					
Silver	anr				
Sodium	anr				
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	anr				

(*) Outside of QC limits
(anr) Analyte not requested

5.3.3

5

HIGH STANDARD CHECK SUMMARY

Login Number: J78054
Account: EMTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP
QC Limits: 95 to 105 % Recovery

Date Analyzed: 12/21/07
Run ID: MA20282

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:	15:21		
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Boron			
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	4000	4030	100.8
Magnesium	anr		
Manganese	anr		
Molybdenum	anr		
Nickel	anr		
Palladium			
Potassium	anr		
Selenium	anr		
Silicon			
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

5.3.4

5

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: SA1Z2107M1.ICP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 50 to 150 % Recovery Run ID: MA20282 Units: ug/l

Time:	15:35	19:25
Sample ID:	CRI	CRIA
Metal	True	True
	Results	% Rec

Aluminum			
Antimony	120	10	
Arsenic	20	6.0	anr
Barium	400		
Beryllium	10	2.0	anr
Boron			
Cadmium	10		
Calcium			
Chromium	20		
Cobalt	100		
Copper	50		
Iron			
Lead	6.0	6.0	
Magnesium			
Manganese	30		
Molybdenum	40		
Nickel	80		
Palladium	100		
Potassium			
Selenium	10	10	
Silicon			
Silver	20		
Sodium			
Strontium			
Thallium	20	4.0	anr
Tin			
Titanium			
Vanadium	100		
Zinc	40		

(*) Outside of QC limits
(anr) Analyte not requested

5.3.5

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INITIAL LOW CALIBRATION CHECK STANDARD SUMMARY

Login Number: J78054
Account: EHTXF ~ Entact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP
QC Limits: 50 to 150 % Recovery

Date Analyzed: 12/21/07
Run ID: MA2G282

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:		15:29		19:18	
Sample ID: CR1B		CR1B1		CR1B2	
Metal	True	Results	% Rec	Results	% Rec
Aluminum	400				
Antimony	12				
Arsenic	16				
Barium	400				
Beryllium	2.0				
Boron	200				
Cadmium	8.0				
Calcium	5000				
Chromium	20				
Cobalt	100				
Copper	50				
Iron	200				
Lead	6.0	6.8	113.3	7.0	116.7
Magnesium	5000				
Manganese	30				
Molybdenum	40				
Nickel	80				
Palladium	100				
Potassium	10000				
Selenium	20				
Silicon	400				
Silver	20				
Sodium	10000				
Strontium	20				
Thallium	20				
Tin	20				
Titanium	20				
Vanadium	100				
Zinc	40				

(*) Outside of QC limits
(anr) Analyte not requested

5.3.6

5

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perch Amboy

File ID: SA12Z107M1.TCP
QC Limits: 80 to 120 % Recovery

Date Analyzed: 12/21/07
Run ID: MA20282

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:	16:28	16:27	19:32	19:39
Sample ID:	ICSA1	ICSAB1	ICSA2	ICSAB2
Metal	True	True	Results % Rec	Results % Rec
Aluminum	500000	500000	512000 102.4	486000 97.2
Antimony		1000	-0.30	1080 108.0
Arsenic		1000	-1.2	1000 100.0
Barium		500	2.4	526 105.2
Beryllium		500	0.0	512 102.4
Boron			4.8	17.2
Cadmium		1000	0.70	1130 113.0
Calcium	400000	400000	384000 96.0	366000 91.5
Chromium		500	0.40	482 96.4
Cobalt		500	8.9	524 104.8
Copper		500	14.9	516 103.2
Iron	200000	200000	187000 93.5	185000 92.5
Lead		1000	-0.50	962 96.3
Magnesium	500000	500000	500000 100.0	539000 107.8
Manganese		500	0.80	505 101.0
Molybdenum		500	-2.9	496 99.2
Nickel		1000	7.9	970 97.0
Palladium		500	9.4	556 111.2
Potassium			4.6	7.1
Selenium		1000	10.6	1030 103.0
Silicon				
Silver		1000	0.50	1080 108.0
Sodium			59.9	54.6
Strontium			0.90	0.70
Thallium		1000	2.4	980 98.0
Tin			2.2	1.2
Titanium			2.0	1.6
Vanadium		500	-3.4	504 100.8
Zinc		1000	1.6	978 97.8

(*) Outside of QC limits
(anr) Analyte not requested

5.3.7

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INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: J78054
Account: EHTXF - Enact Houston
Project: Chevron, Perth Amboy

File ID: SA122107M1.ICP Date Analyzed: 12/21/07 Methods: EPA 200.7, SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA20282 Units: ug/l

Time:	02:44				02:51		07:15		07:22	
Sample ID:	ICSA	ICSAB	ICSA3		ICSAB3		ICSA4		ICSAB4	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	503000	101.4	494000	98.8	509000	101.8	491000	98.2
Antimony		1000	-0.20		1040	104.0	2.3		1070	107.0
Arsenic		1000	-1.6		982	98.2	-2.1		1000	100.0
Barium		500	2.4		516	103.2	2.4		521	104.2
Beryllium		500	0.0		515	103.0	0.0		516	103.2
Boron			1.5		14.2		3.2		15.6	
Cadmium		1000	0.80		1110	111.0	0.50		1140	114.0
Calcium	400000	400000	397000	99.3	382000	95.5	400000	100.0	383000	95.8
Chromium		500	0.20		498	99.6	-0.20		494	98.8
Cobalt		500	8.2		517	103.4	8.9		529	105.8
Copper		500	14.9		502	100.4	14.9		509	101.8
Iron	200000	200000	189000	94.5	189000	94.5	189000	94.5	188000	94.0
Lead		1000	-0.40		961	96.1	4.8		979	97.9
Magnesium	500000	500000	523000	104.6	567000	113.4	524000	104.8	561000	112.2
Manganese		500	0.90		519	103.8	0.80		516	103.2
Molybdenum		500	-2.6		486	97.2	-2.5		499	99.8
Nickel		1000	7.7		963	96.3	7.8		985	98.5
Palladium		500	7.7		541	108.2	8.4		545	109.0
Potassium			-25		-8.6		-49		-51	
Selenium		1000	10.3		1010	101.0	9.9		1030	103.0
Silicon										
Silver		1000	0.60		1070	107.0	1.3		1080	108.0
Sodium			224		130		62.4		59.9	
Strontium			0.10		-0.10		0.20		-0.10	
Thallium		1000	1.9		984	98.4	2.6		991	99.1
Tin			1.7		1.0		1.0		1.5	
Titanium			2.0		1.8		2.0		1.9	
Vanadium		500	-3.5		507	101.4	-3.9		505	101.0
Zinc		1000	1.7		1010	101.0	2.6		1020	102.0

(*1 Outside of QC limits
(anr) Analyte not requested

5.3.7
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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20287

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:24	MA20287-STD1	1		STDA
10:31	MA20287-STD2	1		STDB
10:37	MA20287-STD3	1		STDC
10:43	MA20287-STD4	1		STDD
10:50	MA20287-STD5	1		STDE
10:56	MA20287-STD6	1		STDF
11:02	MA20287-STD7	1		STDG
11:08	MA20287-STD8	1		STDH
11:15	MA20287-STD9	1		STDI
11:52	MA20287-HSTD1	1		
12:21	MA20287-CRIB1	1		
12:27	MA20287-CR1A1	1		
12:33	MA20287-ICV1	1		
12:57	MA20287-ICB1	1		
13:03	MA20287-ICCV1	1		
13:11	MA20287-CCB1	1		
13:18	MA20287-ICSA1	1		
13:25	MA20287-ICSAB1	1		
13:31	MA20287-CCV1	1		
13:37	MA20287-CCB2	1		
13:44	MP42002-MB1	1		
13:49	MP42002-LC1	1		
13:55	MP42002-B1	1		
14:01	J79372-1	1		(sample used for QC only; not part of login J78054)
14:07	ZZZZZZ	1		
14:14	ZZZZZZ	1		
14:20	ZZZZZZ	1		
14:26	ZZZZZZ	1		
14:32	ZZZZZZ	1		
14:38	ZZZZZZ	1		
14:44	MA20287-CCV2	1		
14:51	MA20287-CCB3	1		
14:57	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: 678054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
Analyst: WP Run ID: MA20287
Parameter2: Pb

Time	Sample Description	Dilution Factor	PS Repov	Comments
15:03	ZZZZZZ	10		
15:09	ZZZZZZ	10		
15:15	ZZZZZZ	1		
15:21	J78054-4	3		
----->	Last reportable sample/prep for job J78054			
15:27	ZZZZZZ	3		
15:33	ZZZZZZ	1		
15:39	ZZZZZZ	1		
15:49	MP42000-MB1	1		
15:55	MP42000-LC1	1		
16:01	MA20287-CCV3	1		
16:19	MA20287-CCB4	1		
16:25	J78649-1	1		(sample used for QC only; not part of login J78054)
16:31	ZZZZZZ	1		
16:37	ZZZZZZ	1		
16:43	MP42000-S1	1		
16:49	MP42000-S2	1		
16:55	MP42000-S51	5		
17:02	ZZZZZZ	1		
17:08	MP42002-S1	1		
17:14	MP42002-S2	1		
17:20	MA20287-CCV4	1		
17:26	MA20287-CCB5	1		
17:34	MA20287-ICSA2	1		
17:42	MA20287-ICSAB2	1		
17:49	MA20287-CCV5	1		
17:55	MA20287-CCB6	1		
----->	Last reportable CCB for job J78054			
18:02	MP42002-SL1	5		
18:08	ZZZZZZ	1		
18:14	ZZZZZZ	1		
18:20	ZZZZZZ	1		
18:29	MP42024-MB1	1		
18:35	MP42024-B1	1		
18:42	MP42024-S1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407Mi.DAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 290.7, SW846 6010B
Run ID: MA20287

Time	Sample Description	Dilution Factor	PS Recov	Comments
18:48	MP42024-S2	1		
18:54	J78119-1	1		(sample used for QC only; not part of login J78054)
19:00	MA20287-CCV6	1		
19:06	MA20287-CCB7	1		
19:13	MP42024-SD1	5		
19:19	ZZZZZZ	1		
19:25	ZZZZZZ	1		
19:31	ZZZZZZ	1		
19:37	ZZZZZZ	1		
19:43	ZZZZZZ	1		
19:49	ZZZZZZ	1		
19:56	ZZZZZZ	1		
20:02	ZZZZZZ	1		
20:08	ZZZZZZ	1		
20:14	MA20287-CCV7	1		
20:20	MA20287-CCB8	1		
20:27	ZZZZZZ	1		
20:33	ZZZZZZ	1		
20:39	ZZZZZZ	1		
20:45	ZZZZZZ	1		
20:51	ZZZZZZ	1		
20:57	ZZZZZZ	1		
21:03	ZZZZZZ	1		
21:10	ZZZZZZ	1		
21:16	ZZZZZZ	1		
21:22	ZZZZZZ	1		
21:28	MA20287-CCV8	1		
21:34	MA20287-CCB9	1		
21:41	MP42025-MB1	1		
21:47	MP42025-B1	1		
21:53	MP42025-S1	1		
21:59	MP42025-S2	1		
22:05	J78818-10	1		(sample used for QC only; not part of login J78054)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Log# Number: J78054
Account: EMTX - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20287

Time	Sample Description	Dilution PS Factor	Recov	Comments
22:11	MP42025-SD1	5		
22:18	ZZZZZZ	1		
22:24	ZZZZZZ	1		
22:30	ZZZZZZ	1		
22:36	ZZZZZZ	1		
22:42	MA20287-CCV9	1		
22:48	MA20287-CCB10	1		
22:55	ZZZZZZ	1		
23:01	ZZZZZZ	1		
23:07	ZZZZZZ	1		
23:13	ZZZZZZ	1		
23:19	ZZZZZZ	1		
23:25	ZZZZZZ	1		
23:32	ZZZZZZ	1		
23:38	ZZZZZZ	1		
23:44	ZZZZZZ	1		
23:50	ZZZZZZ	1		
23:56	MA20287-CCV10	1		
00:02	MA20287-CCB11	1		
00:09	MA20287-ICSA3	1		
00:15	MA20287-ICSA3	1		
00:21	MA20287-CCV11	1		
00:28	MA20287-CCB12	1		
00:34	ZZZZZZ	1		
00:40	ZZZZZZ	1		
00:46	ZZZZZZ	1		
00:52	ZZZZZZ	1		
01:00	ZZZZZZ	1		
01:06	MP41969-S1	3		
01:12	MP41969-S2	3		
01:19	ZZZZZZ	15		
01:25	MA20287-CCV12	1		
01:31	MA20287-CCB13	1		

Accutest Laboratories Instrument Runlog
Inorganics Analytes

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20287

Time	Sample Description	Dilution Factor	PS Recov	Comments
01:37	MP42015-MB1	1		
01:43	MP42015-LC1	1		
01:50	ZZZZZZ	1		
01:56	ZZZZZZ	1		
02:02	ZZZZZZ	1		
02:08	MP42023-MB2	1		
02:14	MP42023-LC1	1		
02:20	MP42023-S1	2		Needs higher dilution for Pb
02:26	MP42023-S2	2		Needs higher dilution for Pb
02:33	ZZZZZZ	1		
02:33	J79512-1	1		(sample used for QC only; not part of login J78054)
02:39	MA20287-CCV13	1		
02:45	MA20287-CCB14	1		
02:51	MP42023-SD1	5		Needs higher dilution for Pb
02:57	ZZZZZZ	1		
03:06	MP42028-MB1	1		
03:12	MP42028-B1	1		
03:18	MP42028-S1	1		
03:24	MP42028-S2	1		
03:30	J79924-4	1		(sample used for QC only; not part of login J78054)
03:36	MP42028-SD1	5		
03:43	ZZZZZZ	100000		
03:49	ZZZZZZ	100000		
03:55	MA20287-CCV14	1		
04:01	MA20287-CCB15	1		
04:07	ZZZZZZ	100000		
04:14	ZZZZZZ	100000		
04:20	ZZZZZZ	100000		
04:26	ZZZZZZ	100000		
04:32	ZZZZZZ	100000		
04:38	ZZZZZZ	1		
04:44	ZZZZZZ	1		
04:50	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: ENTXF - Entact Houston
Project: Chevron, Pezth Amboy

File ID: IT122407M1.BAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20287

Time	Sample Description	Dilution PS Factor	Recov	Comments
04:57	ZZZZZZ	1		
05:03	ZZZZZZ	1		
05:09	MA20287-CCV15	1		
05:15	MA20287-CCB16	1		
05:22	ZZZZZZ	1		
05:28	ZZZZZZ	1		
05:34	ZZZZZZ	1		
05:40	ZZZZZZ	1		
05:46	ZZZZZZ	1		
05:54	MP42029-MB1	1		
06:01	MP42029-B1	1		
06:07	MP42029-S1	1		
06:13	MP42029-S2	1		
06:19	J79925-4	1		(sample used for QC only; not part of login J78054)
06:25	MA20287-CCV16	1		
06:31	MA20287-CCB17	1		
06:38	MA20287-ICSA4	1		
06:44	MA20287-1CSAB4	1		
06:50	MA20287-CCV17	1		
06:57	MA20287-CCB18	1		
07:03	MP42029-SD1	5		
07:09	ZZZZZZ	1		
07:15	ZZZZZZ	1		
07:21	ZZZZZZ	1		
07:27	ZZZZZZ	1		
07:34	ZZZZZZ	1		
07:40	ZZZZZZ	1		
07:46	ZZZZZZ	1		
07:52	ZZZZZZ	1		
07:58	ZZZZZZ	1		
08:04	MA20287-CCV18	1		
08:11	MA20287-CCB19	1		
08:17	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20287

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:23	MA20287-CCV19	1		
08:29	MA20287-CCB20	1		
08:36	MA20287-ICSA5	1		
08:42	MA20287-ICSA35	1		
08:48	MA20287-CCV10	1		
08:54	MA20287-CCS21	1		

Refer to raw data for calibration curve and standards.

5.4
5

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: ITIZ2407M1.DAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20287

Time	Sample Description	Istd#1
10:24	MA20287-STD1	75752 R
10:31	MA20287-STD2	76181
10:37	MA20287-STD3	76619
10:43	MA20287-STD4	76087
10:50	MA20287-STD5	76608
10:56	MA20287-STD6	75465
11:02	MA20287-STD7	75556
11:08	MA20287-STD8	74807
11:15	MA20287-STD9	74406
11:52	MA20287-HSTD1	74687
12:21	MA20287-CPIB1	75260
12:27	MA20287-CRIAI	75779
12:33	MA20287-ICV1	76309
12:57	MA20287-LCB1	75622
13:03	MA20287-LECV1	74733
13:11	MA20287-CCB1	75440
13:18	MA20287-ICSA1	70955
13:25	MA20287-ICSABL	71908
13:31	MA20287-CCV1	74333
13:37	MA20287-CCB2	75392
13:44	MP42002-MB1	74857
13:49	MP42002-LC1	75654
13:55	MP42002-B1	75104
14:01	J79372-1	75304
14:07	ZZZZZZ	74947
14:14	ZZZZZZ	75154
14:20	ZZZZZZ	74968
14:26	ZZZZZZ	75132
14:32	ZZZZZZ	74789
14:38	ZZZZZZ	68155
14:44	MA20287-CCV2	74165
14:51	MA20287-CCB3	74908
14:57	ZZZZZZ	73710

5.4.1
5

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entatt Houston
Project: Chevron, Perth Amboy

File ID: IT122407M3.DAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20287

Time	Sample Description	1std#1
15:03	ZZZZZ2	72593
15:09	ZZZZZ2	72884
15:15	ZZZZZ2	75246
15:21	J78054-4	77998
15:27	ZZZZZ2	75056
15:33	ZZZZZ2	73168
15:39	ZZZZZ2	80455
15:49	MP42000-MB1	72888
15:55	MP42000-LC1	73531
16:01	MA20287-CCV2	72664
16:19	MA20287-CCB4	72509
16:25	J78649-1	72683
16:31	ZZZZZZ	71986
16:37	ZZZZZZ	70090
16:42	MP42000-S1	72707
16:49	MP42000-S2	72591
16:55	MP42000-SD1	74050
17:02	ZZZZZZ	75271
17:08	MP42002-S1	73651
17:14	MP42002-S2	73641
17:20	MA20287-CCV4	74588
17:26	MA20287-CCB5	75264
17:34	MA20287-ICSA2	70852
17:42	MA20287-ICSAB2	71307
17:49	MA20287-CCV5	74132
17:55	MA20287-CCB6	74981
18:02	MP42002-SD1	75202
18:08	ZZZZZZ	96513
18:14	ZZZZZZ	75702
18:20	ZZZZZZ	75857
18:29	MP42024-MB1	77435
18:35	MP42024-B1	76084
18:42	MP42024-S1	81591

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Enact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20287

Time	Sample Description	Istd#1
18:48	MP42024-S2	80823
18:54	J78119-1	83144
19:00	MA20287-CCV6	75793
19:06	MA20287-CCB7	75467
19:13	MP42024-SD1	76687
19:19	ZZZZZZ	82405
19:25	ZZZZZZ	82001
19:31	ZZZZZZ	103651
19:37	ZZZZZZ	92483
19:43	ZZZZZZ	82513
19:49	ZZZZZZ	80688
19:56	ZZZZZZ	81878
20:02	ZZZZZZ	82145
20:08	ZZZZZZ	87166
20:14	MA20287-CCV7	74604
20:20	MA20287-CCB8	75261
20:27	ZZZZZZ	86406
20:33	ZZZZZZ	80319
20:39	ZZZZZZ	80965
20:45	ZZZZZZ	79499
20:51	ZZZZZZ	81283
20:57	ZZZZZZ	80581
21:03	ZZZZZZ	85205
21:10	ZZZZZZ	81971
21:16	ZZZZZZ	84996
21:22	ZZZZZZ	82641
21:28	MA20287-CCV8	76505
21:34	MA20287-CCB9	77287
21:41	MP42025-MB1	78452
21:47	MP42025-B1	76560
21:53	MP42025-S1	77305
21:59	MP42025-S2	77085
22:05	J78818-10	77848

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20287

Time	Sample Description	Istd#1
22:11	MP42025-SD1	78106
22:18	ZZZZZZ	75486
22:24	ZZZZZZ	79348
22:30	ZZZZZZ	77827
22:36	ZZZZZZ	77673
22:42	MA20287-CCV9	76544
22:48	MA20287-CCB10	77186
22:55	ZZZZZZ	77746
23:01	ZZZZZZ	78037
23:07	ZZZZZZ	78233
23:13	ZZZZZZ	78077
23:19	ZZZZZZ	87511
23:25	ZZZZZZ	79065
23:32	ZZZZZZ	78010
23:38	ZZZZZZ	78094
23:44	ZZZZZZ	78491
23:50	ZZZZZZ	78181
23:56	MA20287-CCV10	76749
00:02	MA20287-CCB11	77463
00:09	MA20287-ICSA3	72259
00:15	MA20287-ICSA3	72720
00:21	MA20287-CCV11	74070
00:28	MA20287-CCB12	77656
00:34	ZZZZZZ	78209
00:40	ZZZZZZ	78539
00:46	ZZZZZZ	78046
00:52	ZZZZZZ	77777
01:00	ZZZZZZ	77912
01:06	MP41969-S1	76668
01:12	MP41969-S2	76834
01:19	ZZZZZZ	76723
01:25	MA20287-CCV12	75493
01:31	MA20287-CCB13	76312

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EMTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1T1Z2407M1.DAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
Run ID: MA20287

Time	Sample Description	Estd#1
01:37	MP42015-MB1	76960
01:43	MP42015-LC1	77259
01:50	ZZZZZZ	74859
01:56	ZZZZZZ	77619
02:02	ZZZZZZ	76049
02:08	MP42023-MB2	76222
02:14	MP42023-LC1	78075
02:20	MP42023-S1	78121
02:26	MP42023-S2	78068
02:33	ZZZZZZ	75820
02:33	J79512-1	75820
02:39	MA20287-CCV13	77751
02:45	MA20287-DCB14	78677
02:51	MP42023-BD1	78207
02:57	ZZZZZZ	77140
03:06	MP42028-MB1	80432
03:12	MP42028-B1	80700
03:18	MP42028-S1	81736
03:24	MP42028-S2	81730
03:30	J79924-4	82045
03:36	MP42028-BD1	79972
03:43	ZZZZZZ	81759
03:49	ZZZZZZ	79821
03:55	MA20287-CCV14	77435
04:01	MA20287-CCB15	77212
04:07	ZZZZZZ	78810
04:14	ZZZZZZ	84056
04:20	ZZZZZZ	82753
04:26	ZZZZZZ	80456
04:32	ZZZZZZ	81139
04:38	ZZZZZZ	80825
04:44	ZZZZZZ	80745
04:50	ZZZZZZ	81000

INTERNAL STANDARD SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
Analyst: WP
Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 601.0B
Run ID: MA20287

Time	Sample Description	Istd#1
04:57	ZZZZZZ	82117
05:03	ZZZZZZ	82800
05:09	MA20287-CCV15	76996
05:15	MA20287-CCB16	77341
05:22	ZZZZZZ	81846
05:28	ZZZZZZ	80581
05:34	ZZZZZZ	83039
05:40	ZZZZZZ	82931
05:46	ZZZZZZ	81512
05:54	MP42029-MB1	79323
06:01	MP42029-B1	79504
06:07	MP42029-S1	82535
06:13	MP42029-S2	82507
06:19	J79925-4	81179
06:25	MA20287-CCV16	77805
06:31	MA20287-CCB17	78840
06:38	MA20287-ICSA4	74193
06:44	MA20287-ICSA4	73561
06:50	MA20287-CCV17	76394
06:57	MA20287-CCB18	77390
07:03	MP42029-SD1	77357
07:09	ZZZZZZ	80396
07:15	ZZZZZZ	81471
07:21	ZZZZZZ	83117
07:27	ZZZZZZ	83761
07:34	ZZZZZZ	81675
07:40	ZZZZZZ	80122
07:46	ZZZZZZ	79946
07:52	ZZZZZZ	80262
07:58	ZZZZZZ	80646
08:04	MA20287-CCV18	77348
08:11	MA20287-CCB19	77540
08:17	ZZZZZZ	83823

INTERNAL STANDARD SUMMARY

Login Number: J78054
 Account: EHEXF - Entact Houston
 Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
 Analyst: WP
 Parameters: Pb

Date Analyzed: 12/24/07 Methods: EPA 200.7, SW846 6010B
 Run ID: MA20287

Time	Sample Description	Istd#1
08:23	MA20287-CCV19	76591
08:29	MA20287-CCB20	77866
08:36	MA20287-ICSA5	73254
08:42	MA20287-ICSAB5	73464
08:48	MA20287-CCV20	76087
08:54	MA20287-CCB21	76974

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium	60-125 %

5.4.1

5

BLANK RESULTS SUMMARY
Page 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
QC Limits: result < RL

Date Analyzed: 12/24/07
Run ID: MA20287

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time: Sample ID:	RL	IDL	12:57 ICB1 raw	13:11 CCB1 raw	13:37 CCB2 raw	14:51 CCB3 raw
Metal			final	final	final	final
Aluminum	200	26	anr			
Antimony	6.0	5.3	anr			
Arsenic	8.0	4.2	anr			
Barium	200	.3	anr			
Beryllium	1.0	.2	anr			
Cadmium	4.0	.4	anr			
Calcium	5000	85	anr			
Chromium	10	.9	anr			
Cobalt	50	1.1	anr			
Copper	25	1.3	anr			
Iron	100	8.3	anr			
Lead	3.0	2.7	1.5	<3.0	4.9	* (a)
Magnesium	5000	24	anr			
Manganese	15	.4	anr			
Molybdenum	20	1.2				
Nickel	40	1.7	anr			
Palladium	50	5.8				
Potassium	10000	66	anr			
Selenium	10	3.9	anr			
Silicon	200	6.6				
Silver	10	1.5	anr			
Sodium	10000	480	anr			
Thallium	10	5	anr			
Tin	10	2.7				
Vanadium	50	1.6	anr			
Zinc	20	4.2	anr			

(*) Outside of QC limits

(anr) Analyte not requested

(a) Within RDL limits for TCLP leachates and soils and less than 3 times the IDL for this element. Only TCLP and soil samples reported for this element in the area bracketed by this QC.

5.4.2

5

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
QC Limits: result < RL

Date Analyzed: 12/24/07
Run ID: MA20267
Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time: Sample ID:	16:19 CCB4	17:26 CCB5	17:55 CCB6
Metal	raw	raw	raw
RL	IDL	final	final
Aluminum	200	26	anr
Antimony	6.0	5.3	anr
Arsenic	8.0	4.2	anr
Barium	200	.3	anr
Beryllium	1.0	.2	anr
Cadmium	4.0	.4	anr
Calcium	5000	85	anr
Chromium	10	.9	anr
Cobalt	50	1.1	anr
Copper	25	1.3	anr
Iron	100	8.3	anr
Lead	3.0	2.7	0.68
Magnesium	5000	24	anr
Manganese	15	.4	anr
Molybdenum	20	1.2	
Nickel	40	1.7	anr
Palladium	50	5.8	
Potassium	10000	66	anr
Selenium	10	2.9	anr
Silicon	200	6.6	
Silver	10	1.5	anr
Sodium	10000	480	anr
Thallium	10	5	anr
Tin	10	2.7	
Vanadium	50	1.6	anr
Zinc	20	4.2	anr

(*) Outside of QC limits

(anr) Analyte not requested

(a) Within RDL limits for TCLP leachates and soils and less than 3 times the IDL for this element. Only TCLP and soil samples reported for this element in the area bracketed by this QC.

5.4.2

5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
QC Limits: 95 to 105 % Recovery

Date Analyzed: 12/24/07
Run ID: MA20287

Method: EPA 200.7, SW846 6010B
Units: ug/l

Time:		12:33			13:31			14:44		
Sample ID:		ICV	ICV1	CCV	CCV1	CCV	CCV2			
Metal		True	Results % Rec	True	Results % Rec	True	Results % Rec			
Aluminum	anr									
Antimony	anr									
Arsenic	anr									
Barium	anr									
Beryllium	anr									
Cadmium	anr									
Calcium	anr									
Chromium	anr									
Cobalt	anr									
Copper	anr									
Iron	anr									
Lead	1000	1010	101.0	2000	1970	98.5	2000	2010	100.5	
Magnesium	anr									
Manganese	anr									
Molybdenum										
Nickel	anr									
Palladium										
Potassium	anr									
Selenium	anr									
Silicon										
Silver	anr									
Sodium	anr									
Thallium	anr									
Tin										
Vanadium	anr									
Zinc	anr									

(*) Outside of QC limits
(anr) Analyte not requested

5.4.3

5

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT Date Analyzed: 12/24/09 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20287 Units: ug/l

Time:		16:01		17:20		17:49			
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2030	101.5	2000	2050	102.5	2000	2010	100.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

5.4.3

5

HIGH STANDARD CHECK SUMMARY

Login Number: J78054
Account: SHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
QC Limits: 95 to 105 % Recovery

Date Analyzed: 12/24/07
Run ID: MA20287
Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:		11:52	
Sample ID:		HSTD	
Metal		True	
		Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	4000	3920	97.8
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Palladium			
Potassium	anr		
Selenium	anr		
Silicon			
Silver	anr		
Sodium	anr		
Thallium	anr		
Tin			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

5.4.4

5

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT
QC Limits: 50 to 150 % Recovery

Date Analyzed: 12/24/07
Run ID: MA20287

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:	12:27
Sample ID: CRI	CP1A1
Metal	Results % Rec

Aluminum		
Antimony	120	10
Arsenic	20	20
Barium	400	
Beryllium	10	2.0 anr
Cadmium	10	
Calcium		
Chromium	20	
Cobalt	100	
Copper	50	
Iron		
Lead	6.0	6.0
Magnesium		
Manganese	30	
Molybdenum	40	
Nickel	50	
Palladium	100	
Potassium		
Selenium	10	10
Silicon		
Silver	20	
Sodium		
Thallium	20	20
Tin		
Vanadium	100	
Zinc	40	

(*) Outside of QC limits
(anr) Analyte not requested

5.4.5
5

INITIAL LOW CALIBRATION CHECK STANDARD SUMMARY

Login Number: J78054
 Account: EHTXF - Entact Houston
 Project: Chevron, Perth Amboy

File ID: IT122407M1.DAI
 QC Limits: 50 to 150 % Recovery

Date Analyzed: 12/24/07
 Run ID: MA20287

Methods: EPA 200.7, SW846 6010B
 Units: ug/l

Time:		12:21	
Sample ID: CRIB		CRIBi	
Metal	True	Results	% Rec
Aluminum	400		
Antimony	12		
Arsenic	16		
Barium	400		
Beryllium	2.0		
Cadmium	8.0		
Calcium	5000		
Chromium	20		
Cobalt	100		
Copper	50		
Iron	200		
Lead	6.0	7.1	118.3
Magnesium	5000		
Manganese	30		
Molybdenum	40		
Nickel	80		
Palladium	100		
Potassium	10000		
Selenium	20		
Silicon	400		
Silver	20		
Sodium	10000		
Thallium	20		
Tin	20		
Vanadium	100		
Zinc	40		

(*) Outside of QC limits
 (anr) Analyte not requested

5.4.6

5

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: J78054
Account: SHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT122407M1.DAT Date Analyzed: 12/24/07 Methods: EPA 160.7, SW845 60105
QC Limits: 80 to 120 % Recovery Run ID: MA20287 Units: ug/l

Time:	13:18				13:25		17:34		17:42	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1		ICSA2		ICSAB2	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	490000	98.0	502000	100.4	506000	101.2	517000	103.4
Antimony		1000	5.2		961	96.1	6.3		1020	103.0
Arsenic		1000	8.9		1030	103.0	8.0		1060	106.0
Barium		500	-0.26		511	102.2	-0.24		528	105.6
Beryllium		500	0.14		501	100.2	0.16		522	104.4
Cadmium		1000	2.1		971	97.1	2.8		1010	101.0
Calcium	400000	400000	391000	97.8	379000	94.8	407000	101.8	394000	98.5
Chromium		500	8.2		494	98.8	8.2		510	102.0
Cobalt		500	-2.2		471	94.2	-2.7		490	98.0
Copper		500	-0.84		491	98.2	1.0		512	102.4
Iron	200000	200000	195000	97.5	192000	96.0	200000	100.0	197000	98.5
Lead		1000	2.1		965	96.5	4.2		1010	101.0
Magnesium	500000	500000	506000	101.2	509000	101.8	520000	104.0	521000	104.2
Manganese		500	4.1		496	99.2	4.2		514	102.8
Molybdenum		500	-2.7		497	99.4	-2.1		511	102.2
Nickel		1000	-3.0		929	92.9	-2.3		964	96.4
Palladium		500	4.9		510	102.0	7.1		530	106.0
Potassium			4210		4070		4230		4120	
Selenium		1000	5.5		1000	100.0	6.5		1040	104.0
Silicon										
Silver		1000	-0.87		1080	108.0	0.62		1120	112.0
Sodium			-280		-350		-170		-590	
Thallium		1000	7.1		971	97.1	4.3		993	99.3
Tin			-3.9		-3.8		-1.1		-5.1	
Vanadium		500	-10		505	101.0	-11		513	102.6
Zinc		1000	-3.6		950	95.0	-2.9		985	98.5

(*) Outside of QC limits
(anr) Analyte not requested

5.4.7

5

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: J78054
Account: EHXF - Entact Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP41826
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 12/11/07

Metal	RL	IDL	MB raw	final
Aluminum	0.20	.019		
Antimony	0.20	.0051		
Arsenic	0.50	.0031		
Barium	1.0	.0003		
Beryllium	0.0050	.0001		
Cadmium	0.0050	.0004		
Calcium	5.0	.022		
Chromium	0.010	.0009		
Cobalt	0.050	.0011		
Copper	0.025	.0013	anr	
Iron	0.10	.0083		
Lead	0.50	.0027	0.0047	<0.50
Magnesium	5.0	.0076		
Manganese	0.015	.0004		
Molybdenum	0.010	.0012		
Nickel	0.040	.0017	anr	
Palladium	0.010	.0058		
Potassium	10	.061		
Selenium	0.50	.0035		
Silicon	0.20	.0066		
Silver	0.010	.0015		
Sodium	5.0	.45		
Thallium	0.20	.005		
Tin	0.010	.0027		
Vanadium	0.050	.0016		
Zinc	0.10	.0014	anr	

Associated samples MP41826: J78054-1A, J78054-2A, J78054-3A, J78054-4A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

5.5.1

5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J78054
 Account: EHTXF - Entact Houston
 Project: Chevron, Perth Amboy

QC Batch ID: MP41826
 Matrix Type: LEACHATE

Methods: SW846 6010B
 Units: mg/l

Prep Date: 12/05/07

Metal	J77710-1 Original MS	SpikeLot MP2TCLP1 & Rec	QC Limits
-------	-------------------------	----------------------------	--------------

Aluminum

Antimony

Arsenic anr

Barium anr

Beryllium

Cadmium anr

Calcium

Chromium anr

Cobalt

Copper

Iron

Lead 0.057 1.9 2.0 92.2 75-125

Magnesium

Manganese

Molybdenum

Nickel

Palladium

Potassium

Selenium anr

Silicon

Silver anr

Sodium

Thallium

Tin

Vanadium

Zinc

Associated samples MP41826: J78054-1A, J78054-2A, J78054-3A, J78054-4A

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP41826
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 12/05/07

MetaI	J77710-1 Original MSD	SpikeIot MPITCLP1 & Rec	MSD RPD	QC Limit
-------	--------------------------	----------------------------	------------	-------------

Aluminum

Antimony

Arsenic anr

Barium anr

Beryllium

Cadmium anr

Calcium

Chromium anr

Cobalt

Copper

Iron

Lead 0.057 1.9 2.0 92.2 0.0 20

Magnesium

Manganese

Molybdenum

Nickel

Palladium

Potassium

Selenium anr

Silicon

Silver anr

Sodium

Thallium

Tin

Vanadium

Zinc

Associated samples MP41826: J78054-1A, J78054-2A, J78054-3A, J78054-4A

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP41826
Matrix Type: SEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 12/05/07 12/11/07

Metal	BSP Result	Spikelet MPITCLP1 % Rec	QC Limits	LCS Result	Spikelet MPLCW2 % Rec	QC Limits
-------	---------------	----------------------------	--------------	---------------	--------------------------	--------------

Aluminum

Antimony

Arsenic anr

Barium anr

Beryllium

Cadmium anr

Calcium

Chromium anr

Cobalt

Copper

Iron

Lead 1.9 2.0 95.0 80-120 0.51 0.50 102.0 80-120

Magnesium

Manganese

Molybdenum

Nickel

Palladium

Potassium

Selenium anr

Silicon

Silver anr

Sodium

Thallium

Tin

Vanadium

Zinc

Associated samples MP41826: J78054-1A, J78054-2A, J78054-3A, J78054-4A

Results < LDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

5.5.3

5

SERIAL DILUTION RESULTS SUMMARY

Login Number: J78054
 Account: EHTXF - Entact Houston
 Project: Chevron, Perth Amboy

QC Batch ID: MP41826
 Matrix Type: LEACHATE

Methods: SW846 6010B
 Units: ug/l

Prep Date: 12/05/07

Metal	J77710-1 Original SDL 1:5	PPD	QC Limits
-------	------------------------------	-----	--------------

Aluminum
 Antimony
 Arsenic anr
 Barium anr
 Beryllium
 Cadmium anr
 Calcium
 Chromium ant
 Cobalt
 Copper
 Iron
 Lead 56.6 56.0 1.2 0-10
 Magnesium
 Manganese
 Molybdenum
 Nickel
 Palladium
 Potassium
 Selenium anr
 Silicon
 Silver anr
 Sodium
 Thallium
 Tin
 Vanadium
 Zinc

Associated samples MP41826: J78054-1A, J78054-2A, J78054-3A, J78054-4A

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

5.5.4

5

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP42010
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 12/21/07

Metal	RL	IDL	MB raw	final
Aluminum	20	1.3	anr	
Antimony	2.0	.1	anr	
Arsenic	2.0	.17	anr	
Barium	20	.03	anr	
Beryllium	0.50	.01	anr	
Boron	10	.1		
Cadmium	0.50	.009	anr	
Calcium	500	1.4		
Chromium	1.0	.04	anr	
Cobalt	5.0	.03	anr	
Copper	2.5	.33	anr	
Iron	10	.21		
Lead	2.0	.1	0.020	<2.0
Magnesium	500	2.2		
Manganese	1.5	.01	anr	
Molybdenum	2.0	.04		
Nickel	4.0	.03	anr	
Palladium	5.0	.25		
Potassium	1000	5.3		
Selenium	2.0	.2	anr	
Silicon	20	.26		
Silver	1.0	.05	anr	
Sodium	1000	1.4		
Strontium	1.0	.02		
Thallium	1.0	.09	anr	
Tin	5.0	.05		
Titanium	1.0	.04		
Vanadium	5.0	.03	anr	
Zinc	2.0	.15	anr	

Associated samples MP42010: J78054-1, J78054-2, J78054-3, J78054-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J78054
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP42010
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 12/21/07

Metal	J78673-8 Original MS	Spikelor MP1RS1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	151	131	110	-18.2W(a 75-125
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP42010: J78054-1, J78054-2, J78054-3, J78054-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J78054
 Account: EHTXF - Entact Houston
 Project: Chevron, Perth Amboy

QC Batch ID: MP42010
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 12/21/07

Metal	J78673-8 Original MSD	Spike lot MP1RS1	% Rec	MSD RPU	QC Limit
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt	anr				
Copper	anr				
Iron					
Lead	151	122	111	-26.1N(a 7.1	Z0
Magnesium					
Manganese	anr				
Molybdenum					
Nickel	anr				
Palladium					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	anr				

Associated samples MP42010: J78054-1, J78054-2, J78054-3, J78054-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: J78054
Account: EHTXF ~ Entact Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP42010
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 12/21/07

Metal	BSP Result	Spike Lot MPIRS1	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron				
Lead	103	100	103.0	80~120
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP42010: J78054~1, J78054~2, J78054~3, J78054~4

Results < IOL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

5.6.3

5

SERIAL DILUTION RESULTS SUMMARY

Login Number: J78054
Account: ESTXF - Entact Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP42010
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 12/21/07

J78673-B		QC	
Metal	Original SDI 1:5 RPD	Limits	
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Boron			
Cadmium	anr		
Calcium			
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron			
Lead	1400 1490 7.0	0-10	
Magnesium			
Manganese	anr		
Molybdenum			
Nickel	anr		
Palladium			
Potassium			
Selenium	anr		
Silicon			
Silver	anr		
Sodium			
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

Associated samples MP42010: J78054-1, J78054-2, J78054-3, J78054-4

Results < LOD are shown as zero for calculation purposes
(*1) Outside of QC limits
(anr) Analyte not requested



General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary



Percent Solids Raw Data Summary

Page 1 of 1

Job Number: J78054
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: J78054-1	Analyzed: 07-DEC-07 by TS	Method: EPA 160.3 M
ClientID: S1016-RAW		

Wet Weight (Total)	27.34	g
Tare Weight	21.14	g
Dry Weight (Total)	24.61	g
Solids, Percent	56.9	%

Sample: J78054-2	Analyzed: 07-DEC-07 by TS	Method: EPA 160.3 M
ClientID: S2249-RAW		

Wet Weight (Total)	28.83	g
Tare Weight	21.43	g
Dry Weight (Total)	25.99	g
Solids, Percent	61.6	%

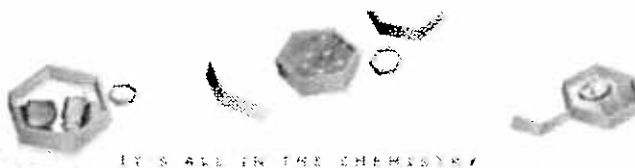
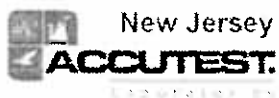
Sample: J78054-3	Analyzed: 07-DEC-07 by TS	Method: EPA 160.3 M
ClientID: S2387-RAW		

Wet Weight (Total)	31.17	g
Tare Weight	21.26	g
Dry Weight (Total)	28.36	g
Solids, Percent	71.6	%

Sample: J78054-4	Analyzed: 07-DEC-07 by TS	Method: EPA 160.3 M
ClientID: S2197-RAS		

Wet Weight (Total)	25.84	g
Tare Weight	19.61	g
Dry Weight (Total)	25.38	g
Solids, Percent	92.6	%

6.1
6



04/08/08

Technical Report for

Entact Houston

Chevron, Perth Amboy

CVX 108

Accutest Job Number: J85904

Sampling Date: 03/13/08

Report to:

Entact Houston
699 South Friendswood
Suite 100
Friendswood, TX 77546

ATTN: Mike Porter

Total number of pages in report: 201



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Nadine Yakes 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

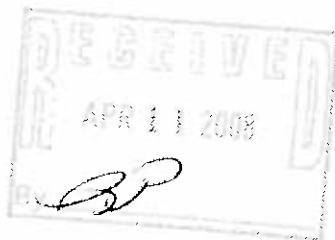


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Sample Summary

Entact Houston

Job No: J85904

Chevron, Perth Amboy
Project No: CVX 108

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J85904-1	03/13/08	15:10 MP	03/15/08	SO	Soil	S2197RB2
J85904-1A	03/13/08	15:10 MP	03/15/08	SO	Soil	S2197RB2
J85904-2	03/13/08	15:10 MP	03/15/08	SO	Soil	S2387RF4
J85904-2A	03/13/08	15:10 MP	03/15/08	SO	Soil	S2387RF4

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY**Client:** Entact Houston**Job No** J85904**Site:** Chevron, Perth Amboy**Report Date** 4/8/2008 3:41:25 PM

On 03/15/2008, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 4.8 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of J85904 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B**Matrix:** SO**Batch ID:** VIC2071

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J86562-3MS, J86562-3MSD were used as the QC samples indicated.
- J85904-2: Dilution required due to matrix interference.

Matrix: SO**Batch ID:** VIC2073

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J86628-1MS, J86628-1MSD were used as the QC samples indicated.

Matrix: SO**Batch ID:** VG5270

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J86058-1MS, J86058-1MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Chlorobenzene, trans-1,2-Dichloroethene are outside control limits.
- RPD(s) for MSD for Acetone are outside control limits for sample J86058-1MSD. Probable cause due to matrix interference.
- VG5270-BS for Chlorobenzene: High percent recoveries and no associated positive found in the QC batch.
- VG5270-BS for trans-1,2-Dichloroethene: High percent recoveries and no associated positive found in the QC batch.

Metals By Method SW846 6010B**Matrix:** LEACHATE**Batch ID:** MP43029

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J85287-137AMS, J85287-137AMSD, J85287-137ASDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Lead are outside control limits for sample MP43029-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO**Batch ID:** MP43042

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) J86496-1MSD, J86496-1SDL, J86496-1MS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Lead are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method EPA 160.3 M**Matrix:** SO**Batch ID:** GN13388

- The data for EPA 160.3 M meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover



Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID: S2197RB2
 Lab Sample ID: J85904-1
 Matrix: SO - Soil
 Method: SW846 8260B
 Project: Chevron, Perth Amboy

Date Sampled: 03/13/08
 Date Received: 03/15/08
 Percent Solids: 89.1

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G108730.D	1	03/27/08	SJM	n/a	n/a	VG5270
Run #2	1C49733.D	1	03/27/08	MAH	n/a	n/a	V1C2073

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	0.58 g		
Run #2	10.0 g	10.0 ml	100 ul

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	97	41	ug/kg	
71-43-2	Benzene	ND	9.7	7.2	ug/kg	
75-27-4	Bromodichloromethane	ND	48	2.5	ug/kg	
75-25-2	Bromoform	ND	48	8.1	ug/kg	
74-83-9	Bromomethane	ND	48	4.8	ug/kg	
78-93-3	2-Butanone (MEK)	ND	97	28	ug/kg	
75-15-0	Carbon disulfide	ND	48	2.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	48	2.5	ug/kg	
108-90-7	Chlorobenzene	ND	48	5.5	ug/kg	
75-00-3	Chloroethane	ND	48	5.1	ug/kg	
67-66-3	Chloroform	ND	48	3.9	ug/kg	
74-87-3	Chloromethane	ND	48	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	48	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	48	6.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	9.7	2.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	48	4.6	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	48	1.9	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	48	5.5	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	48	1.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	48	4.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	48	5.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	48	8.0	ug/kg	
100-41-4	Ethylbenzene	97.3	9.7	4.8	ug/kg	
591-78-6	2-Hexanone	ND	48	17	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	48	20	ug/kg	
75-09-2	Methylene chloride	97.1	48	4.7	ug/kg	
100-42-5	Styrene	ND	48	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	48	2.9	ug/kg	
127-18-4	Tetrachloroethene	ND	48	3.3	ug/kg	
108-88-3	Toluene	94.9	9.7	4.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	48	3.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	48	2.9	ug/kg	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S2197RB2	Date Sampled:	03/13/08
Lab Sample ID:	J85904-1	Date Received:	03/15/08
Matrix:	SO - Soil	Percent Solids:	89.1
Method:	SW846 8260B		
Project:	Chevron, Perth Amboy		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	48	3.2	ug/kg	
75-01-4	Vinyl chloride	ND	48	5.5	ug/kg	
1330-20-7	Xylene (total)	1790 ^a	120	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%	93%	68-123%
17060-07-0	1,2-Dichloroethane-D4	85%	91%	59-136%
2037-26-5	Toluene-D8	89%	94%	75-123%
460-00-4	4-Bromofluorobenzene	134%	95%	65-140%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	S2197RB2	Date Sampled:	03/13/08
Lab Sample ID:	J85904-1	Date Received:	03/15/08
Matrix:	SO - Soil	Percent Solids:	89.1
Project:	Chevron, Perth Amboy		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	1070	2.2	mg/kg	1	04/01/08	04/02/08 ND	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA20680

(2) Prep QC Batch: MP43042

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: S2197RB2

Lab Sample ID: J85904-1

Matrix: SO - Soil

Project: Chevron, Perth Amboy

Date Sampled: 03/13/08

Date Received: 03/15/08

Percent Solids: 89.1

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	10.9		%	1	04/01/08	TS	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID:	S2197RB2	Date Sampled:	03/13/08
Lab Sample ID:	J85904-1A	Date Received:	03/15/08
Matrix:	SO - Soil	Percent Solids:	89.1
Project:	Chevron, Perth Amboy		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	11.7	D008	5.0	0.50	mg/l	1	03/27/08	04/01/08 ND	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA20673

(2) Prep QC Batch: MP43029

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261.6/96)

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID:	S2387RF4	Date Sampled:	03/13/08
Lab Sample ID:	J85904-2	Date Received:	03/15/08
Matrix:	SO - Soil	Percent Solids:	74.8
Method:	SW846 8260B		
Project:	Chevron, Perth Amboy		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C49690.D	1	03/26/08	MAH	n/a	n/a	V1C2071
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	9.7 g	10.0 ml	10.0 ul
Run #2			

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8600	3600	ug/kg	
71-43-2	Benzene	7590	860	640	ug/kg	
75-27-4	Bromodichloromethane	ND	4300	220	ug/kg	
75-25-2	Bromoform	ND	4300	720	ug/kg	
74-83-9	Bromomethane	ND	4300	430	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8600	2500	ug/kg	
75-15-0	Carbon disulfide	ND	4300	260	ug/kg	
56-23-5	Carbon tetrachloride	ND	4300	220	ug/kg	
108-90-7	Chlorobenzene	ND	4300	490	ug/kg	
75-00-3	Chloroethane	ND	4300	460	ug/kg	
67-66-3	Chloroform	ND	4300	350	ug/kg	
74-87-3	Chloromethane	ND	4300	460	ug/kg	
124-48-1	Dibromochloromethane	ND	4300	180	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4300	610	ug/kg	
107-06-2	1,2-Dichloroethane	ND	860	210	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4300	410	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4300	170	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4300	490	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	4300	170	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4300	360	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4300	440	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4300	710	ug/kg	
100-41-4	Ethylbenzene	26800	860	420	ug/kg	
591-78-6	2-Hexanone	ND	4300	1500	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4300	1700	ug/kg	
75-09-2	Methylene chloride	ND	4300	410	ug/kg	
100-42-5	Styrene	ND	4300	200	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4300	260	ug/kg	
127-18-4	Tetrachloroethene	ND	4300	290	ug/kg	
108-88-3	Toluene	76500	860	370	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4300	330	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4300	260	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S2387RF4	Date Sampled:	03/13/08
Lab Sample ID:	J85904-2	Date Received:	03/15/08
Matrix:	SO - Soil	Percent Solids:	74.8
Method:	SW846 8260B		
Project:	Chevron, Perth Amboy		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	4300	280	ug/kg	
75-01-4	Vinyl chloride	ND	4300	490	ug/kg	
1330-20-7	Xylene (total)	185000	1700	230	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		68-123%
17060-07-0	1,2-Dichloroethane-D4	89%		59-136%
2037-26-5	Toluene-D8	96%		75-123%
460-00-4	4-Bromofluorobenzene	92%		65-140%

(a) Dilution required due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	S2387RF4	Date Sampled:	03/13/08
Lab Sample ID:	J85904-2	Date Received:	03/15/08
Matrix:	SO - Soil	Percent Solids:	74.8
Project:	Chevron, Perth Amboy		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	142000	130	mg/kg	50	04/01/08	04/02/08 ND	SW846 6010B ¹	SW846 3050B ²

(1) Instrument QC Batch: MA20680

(2) Prep QC Batch: MP43042

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: S2387RF4

Lab Sample ID: J85904-2

Matrix: SO - Soil

Project: Chevron, Perth Amboy

Date Sampled: 03/13/08

Date Received: 03/15/08

Percent Solids: 74.8

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	25.2		%	1	04/01/08	TS	EPA 160.3 M

RL = Reporting Limit

Report of Analysis

Page 1 of 1

Client Sample ID: S2387RF4	Date Sampled: 03/13/08
Lab Sample ID: J85904-2A	Date Received: 03/15/08
Matrix: SO - Soil	Percent Solids: 74.8
Project: Chevron, Perth Amboy	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	1240	D008	5.0	63	mg/l	125	03/27/08	04/03/08 ND	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA20693

(2) Prep QC Batch: MP43029

RL = Reporting Limit

MCL = Maximum Contamination Level (40 CFR 261.6/96)



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

CHAIN OF CUSTODY RECORD

NO.

COMPANY INFORMATION			PROJECT INFORMATION			REQUESTED ANALYSIS/METHOD										COMMENTS
LOCATION	ATTN	ADDRESS	PROJECT	BILLING INFORMATION	BILL TO	ADDRESS	PHONE	FAX	NUMBER OF CONTAINERS	Total Pb	TCLP Pb	TEL Pb	Total VOC	Moisture Content		
ENTACT HOUSTON	Mike Porter	699 S. Friendswood, Suite 100 Friendswood, TX 77546	CVX 108	Direct Bill Chevron												
PHONE	281-996-9892		PHONE													
FAX	281-996-9888		FAX													
SAMPLE NO	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	Total Pb	TCLP Pb	TEL Pb	Total VOC	Moisture Content				
S2197RB2	Soil contaminated with petroleum product	3/13/07	15:10	Soil	Plastic Bag	Ice	1	X	X	X	X	X	-1	Δ		
S2387RF4	Soil contaminated with petroleum product	3/13/07	15:10	Soil	Plastic Bag	Ice	1	X	X	X	X	X	-2	Δ		
<p>4.8°C</p> <p>REQUIRED TURNAROUND <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS <input checked="" type="checkbox"/> ROUTINE <input type="checkbox"/> OTHER:</p>																
1. RELINQUISHED BY		DATE	2. RELINQUISHED BY		DATE	3. RELINQUISHED BY		DATE								
SIGNATURE: <i>M. Porter</i>		3/15/08	SIGNATURE: <i>Felix</i>			SIGNATURE:										
PRINTED NAME/COMPANY: PORTER/ENTACT		16:00	PRINTED NAME/COMPANY: 3/15/08			PRINTED NAME/COMPANY:										
1. RECEIVED BY		DATE	2. RECEIVED BY		DATE	3. RECEIVED BY		DATE								
SIGNATURE: <i>Felix</i>			SIGNATURE: <i>M. Porter</i>			SIGNATURE:										
PRINTED NAME/COMPANY:			PRINTED NAME/COMPANY: 3/15/08			PRINTED NAME/COMPANY:										

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J85904: Chain of Custody

Page 1 of 1

Internal Sample Tracking Chronicle

Entact Houston

Job No: J85904

Chevron, Perth Amboy
Project No: CVX 108

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
J85904-1 S2197RB2	Collected: 13-MAR-08 15:10	By: MP	Received: 15-MAR-08	By: MPC		
J85904-1	SW846 8260B	27-MAR-08 14:20	SJM			V8260TCL
J85904-1	SW846 8260B	27-MAR-08 17:34	MAH			V8260TCL
J85904-1	EPA 160.3 M	01-APR-08	TS			%MOIST
J85904-1	SW846 6010B	02-APR-08 01:34	ND	01-APR-08	TG	PB
J85904-2 S2387RF4	Collected: 13-MAR-08 15:10	By: MP	Received: 15-MAR-08	By: MPC		
J85904-2	SW846 8260B	26-MAR-08 18:32	MAH			V8260TCL
J85904-2	EPA 160.3 M	01-APR-08	TS			%MOIST
J85904-2	SW846 6010B	02-APR-08 01:40	ND	01-APR-08	TG	PB
J85904-1A S2197RB2	Collected: 13-MAR-08 15:10	By: MP	Received: 15-MAR-08	By: MPC		
J85904-1A	SW846 6010B	01-APR-08 00:56	ND	27-MAR-08	TG	EPB
J85904-2A S2387RF4	Collected: 13-MAR-08 15:10	By: MP	Received: 15-MAR-08	By: MPC		
J85904-2A	SW846 6010B	03-APR-08 15:29	ND	27-MAR-08	TG	EPB

Accutest Internal Chain of Custody

Page 1 of 3

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy
Received: 03/15/08

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
J85904-1.1	Secured Storage	Jayna Patel	03/17/08 12:10	Retrieve from Storage
J85904-1.1	Jayna Patel	Secured Storage	03/17/08 12:19	Return to Storage
J85904-1.1	Secured Storage	Erik Moody	03/26/08 08:20	Retrieve from Storage
J85904-1.1	Erik Moody	Matthew Brennan	03/26/08 08:21	Custody Transfer
J85904-1.1	Matthew Brennan	Elizabeth Medina-Gray	03/26/08 13:17	Custody Transfer
J85904-1.1	Elizabeth Medina-Gray	Secured Storage	03/26/08 14:31	Return to Storage
J85904-1.1	Secured Storage	Scott McGonigal	03/27/08 11:16	Retrieve from Storage
J85904-1.1	Scott McGonigal	Secured Storage	03/27/08 14:20	Return to Storage
J85904-1.1	Secured Storage	Todd Shoemaker	03/28/08 08:08	Retrieve from Storage
J85904-1.1	Todd Shoemaker	Teresa Guziak	03/28/08 08:09	Custody Transfer
J85904-1.1	Teresa Guziak	Secured Storage	03/28/08 11:01	Return to Storage
J85904-1.1	Secured Storage	Erik Moody	04/01/08 08:46	Retrieve from Storage
J85904-1.1	Erik Moody	Rie Iwasaki	04/01/08 08:48	Custody Transfer
J85904-1.1	Rie Iwasaki	Secured Storage	04/01/08 16:09	Return to Storage
J85904-1.1.1	Matthew Brennan	TCLP	03/26/08 10:43	Leachate from J85904-1.1
J85904-1.1.1	TCLP	Matthew Brennan	03/27/08 08:41	Leachate from J85904-1.1
J85904-1.1.1	Matthew Brennan	Secured Storage	03/27/08 08:42	Return to Storage
J85904-1.1.1	Secured Storage	Teresa Guziak	03/27/08 13:23	Retrieve from Storage
J85904-1.1.1	Teresa Guziak	Secured Storage	03/27/08 14:57	Return to Storage
J85904-1.1.2	Teresa Guziak	Metals Digestion	03/27/08 13:25	Digestate from J85904-1.1.1
J85904-1.1.2	Metals Digestion	Teresa Guziak	03/27/08 16:02	Digestate from J85904-1.1.1
J85904-1.1.2	Teresa Guziak	Metals Digestate Storage	03/27/08 16:02	Return to Storage
J85904-1.1.3	Teresa Guziak	Metals Digestion	03/28/08 10:59	Digestate from J85904-1.1
J85904-1.1.3	Metals Digestion	Teresa Guziak	03/28/08 13:04	Digestate from J85904-1.1
J85904-1.1.3	Teresa Guziak	Metals Digestate Storage	03/28/08 13:04	Return to Storage
J85904-1.1.3	Metals Digestate Storage	Veronica Chandra	03/28/08 16:34	Retrieve from Storage
J85904-1.1.3	Veronica Chandra	Metals Digestate Storage	03/28/08 16:35	Return to Storage
J85904-1.1.3	Metals Digestate Storage	Rakesh Pathak	03/28/08 18:08	Retrieve from Storage
J85904-1.1.3	Rakesh Pathak	Metals Digestate Storage	03/28/08 18:29	Return to Storage
J85904-1.1.3	Metals Digestate Storage	Deepa Muralidharan	04/02/08 13:10	Retrieve from Storage
J85904-1.1.3	Deepa Muralidharan	Metals Digestate Storage	04/02/08 16:12	Return to Storage
J85904-1.1.4	Rie Iwasaki	Joshua Frenkel	04/01/08 11:01	Aliquot from J85904-1.1
J85904-1.1.4	Joshua Frenkel		04/01/08 12:39	Depleted
J85904-1.2	Secured Storage	Jayna Patel	03/17/08 12:10	Retrieve from Storage
J85904-1.2	Jayna Patel	Secured Storage	03/17/08 12:19	Return to Storage
J85904-1.3	Secured Storage	Jayna Patel	03/17/08 12:10	Retrieve from Storage
J85904-1.3	Jayna Patel	Secured Storage	03/17/08 12:19	Return to Storage

Accutest Internal Chain of Custody

Page 2 of 3

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy
Received: 03/15/08

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
J85904-1.4	Secured Storage	Jayna Patel	03/17/08 12:10	Retrieve from Storage
J85904-1.4	Jayna Patel	Secured Storage	03/17/08 12:19	Return to Storage
J85904-2.1	Secured Storage	Jayna Patel	03/17/08 12:10	Retrieve from Storage
J85904-2.1	Jayna Patel	Secured Storage	03/17/08 12:19	Return to Storage
J85904-2.1	Secured Storage	Erik Moody	03/26/08 08:20	Retrieve from Storage
J85904-2.1	Erik Moody	Matthew Brennan	03/26/08 08:21	Custody Transfer
J85904-2.1	Matthew Brennan	Elizabeth Medina-Gray	03/26/08 13:17	Custody Transfer
J85904-2.1	Elizabeth Medina-Gray	Secured Storage	03/26/08 14:31	Return to Storage
J85904-2.1	Secured Storage	Todd Shoemaker	03/28/08 08:08	Retrieve from Storage
J85904-2.1	Todd Shoemaker	Teresa Guziak	03/28/08 08:09	Custody Transfer
J85904-2.1	Teresa Guziak	Secured Storage	03/28/08 11:01	Return to Storage
J85904-2.1	Secured Storage	Erik Moody	04/01/08 08:46	Retrieve from Storage
J85904-2.1	Erik Moody	Rie Iwasaki	04/01/08 08:48	Custody Transfer
J85904-2.1	Rie Iwasaki	Secured Storage	04/01/08 16:09	Return to Storage
J85904-2.1.1	Matthew Brennan	TCLP	03/26/08 10:43	Leachate from J85904-2.1
J85904-2.1.1	TCLP	Matthew Brennan	03/27/08 08:41	Leachate from J85904-2.1
J85904-2.1.1	Matthew Brennan	Secured Storage	03/27/08 08:42	Return to Storage
J85904-2.1.1	Secured Storage	Teresa Guziak	03/27/08 13:23	Retrieve from Storage
J85904-2.1.1	Teresa Guziak	Secured Storage	03/27/08 14:57	Return to Storage
J85904-2.1.2	Teresa Guziak	Metals Digestion	03/27/08 13:25	Digestate from J85904-2.1.1
J85904-2.1.2	Metals Digestion	Teresa Guziak	03/27/08 16:02	Digestate from J85904-2.1.1
J85904-2.1.2	Teresa Guziak	Metals Digestate Storage	03/27/08 16:02	Return to Storage
J85904-2.1.3	Teresa Guziak	Metals Digestion	03/28/08 10:59	Digestate from J85904-2.1
J85904-2.1.3	Metals Digestion	Teresa Guziak	03/28/08 13:04	Digestate from J85904-2.1
J85904-2.1.3	Teresa Guziak	Metals Digestate Storage	03/28/08 13:04	Return to Storage
J85904-2.1.3	Metals Digestate Storage	Veronica Chandra	03/28/08 16:34	Retrieve from Storage
J85904-2.1.3	Veronica Chandra	Metals Digestate Storage	03/28/08 16:35	Return to Storage
J85904-2.1.3	Metals Digestate Storage	Rakesh Pathak	03/28/08 18:08	Retrieve from Storage
J85904-2.1.3	Rakesh Pathak	Metals Digestate Storage	03/28/08 18:29	Return to Storage
J85904-2.1.3	Metals Digestate Storage	Deepa Muralidharan	04/02/08 13:10	Retrieve from Storage
J85904-2.1.3	Deepa Muralidharan	Metals Digestate Storage	04/02/08 16:12	Return to Storage
J85904-2.1.4	Rie Iwasaki	Joshua Frenkel	04/01/08 11:01	Aliquot from J85904-2.1
J85904-2.1.4	Joshua Frenkel		04/01/08 12:39	Depleted
J85904-2.2	Secured Storage	Jayna Patel	03/17/08 12:10	Retrieve from Storage
J85904-2.2	Jayna Patel	Secured Storage	03/17/08 12:19	Return to Storage
J85904-2.3	Secured Storage	Jayna Patel	03/17/08 12:10	Retrieve from Storage
J85904-2.3	Jayna Patel	Secured Storage	03/17/08 12:19	Return to Storage

Accutest Internal Chain of Custody

Page 3 of 3

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy
Received: 03/15/08

Sample Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
J85904-2.4	Secured Storage	Jayna Patel	03/17/08 12:10	Retrieve from Storage
J85904-2.4	Jayna Patel	Secured Storage	03/17/08 12:19	Return to Storage

4.3

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GC/MS Volatiles



QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Page 1 of 2

Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C2071-MB	1C49676.D	1	03/26/08	MAH	n/a	n/a	V1C2071

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	210	ug/kg	
71-43-2	Benzene	ND	50	37	ug/kg	
75-27-4	Bromodichloromethane	ND	250	13	ug/kg	
75-25-2	Bromoform	ND	250	42	ug/kg	
74-83-9	Bromomethane	ND	250	25	ug/kg	
78-93-3	2-Butanone (MEK)	ND	500	140	ug/kg	
75-15-0	Carbon disulfide	ND	250	15	ug/kg	
56-23-5	Carbon tetrachloride	ND	250	13	ug/kg	
108-90-7	Chlorobenzene	ND	250	29	ug/kg	
75-00-3	Chloroethane	ND	250	27	ug/kg	
67-66-3	Chloroform	ND	250	20	ug/kg	
74-87-3	Chloromethane	ND	250	27	ug/kg	
124-48-1	Dibromochloromethane	ND	250	11	ug/kg	
75-34-3	1,1-Dichloroethane	ND	250	35	ug/kg	
107-06-2	1,2-Dichloroethane	ND	50	12	ug/kg	
75-35-4	1,1-Dichloroethene	ND	250	24	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	250	9.9	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	250	28	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	250	9.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	250	21	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	250	26	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	250	41	ug/kg	
100-41-4	Ethylbenzene	ND	50	25	ug/kg	
591-78-6	2-Hexanone	ND	250	89	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	100	ug/kg	
75-09-2	Methylene chloride	ND	250	24	ug/kg	
100-42-5	Styrene	ND	250	12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	15	ug/kg	
127-18-4	Tetrachloroethene	ND	250	17	ug/kg	
108-88-3	Toluene	ND	50	22	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	250	19	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	250	15	ug/kg	
79-01-6	Trichloroethene	ND	250	17	ug/kg	
75-01-4	Vinyl chloride	ND	250	28	ug/kg	
1330-20-7	Xylene (total)	ND	100	13	ug/kg	

Method Blank Summary

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Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C2071-MB	1C49676.D	1	03/26/08	MAH	n/a	n/a	V1C2071

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-2

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	92% 68-123%
17060-07-0	1,2-Dichloroethane-D4	90% 59-136%
2037-26-5	Toluene-D8	93% 75-123%
460-00-4	4-Bromofluorobenzene	99% 65-140%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Page 1 of 1

Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C2073-MB	1C49720.D	1	03/27/08	MAH	n/a	n/a	V1C2073

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-1

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	100	13	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	93%	68-123%
17060-07-0	1,2-Dichloroethane-D4	97%	59-136%
2037-26-5	Toluene-D8	94%	75-123%
460-00-4	4-Bromofluorobenzene	100%	65-140%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Page 1 of 2

Job Number: J85904
 Account: EHTXF Entact Houston
 Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG5270-MB1	G108725.D	1	03/27/08	SJM	n/a	n/a	VG5270

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	4.2	ug/kg	
71-43-2	Benzene	ND	1.0	0.74	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.26	ug/kg	
75-25-2	Bromoform	ND	5.0	0.84	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.50	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.9	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.30	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.26	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.57	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.53	ug/kg	
67-66-3	Chloroform	ND	5.0	0.41	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.54	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.22	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.71	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.48	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.20	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.57	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	5.0	0.20	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.42	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.51	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.83	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.8	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	5.0	0.48	ug/kg	
100-42-5	Styrene	ND	5.0	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.30	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.34	ug/kg	
108-88-3	Toluene	ND	1.0	0.43	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.39	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.30	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.33	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.57	ug/kg	

Method Blank Summary

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Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG5270-MB1	G108725.D	1	03/27/08	SJM	n/a	n/a	VG5270

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-1

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	87%	68-123%
17060-07-0	1,2-Dichloroethane-D4	79%	59-136%
2037-26-5	Toluene-D8	97%	75-123%
460-00-4	4-Bromofluorobenzene	91%	65-140%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

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Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C2071-BS	1C49677.D	1	03/26/08	MAH	n/a	n/a	V1C2071

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	2500	2540	102	37-155
71-43-2	Benzene	2500	2400	96	80-116
75-27-4	Bromodichloromethane	2500	2310	92	81-123
75-25-2	Bromoform	2500	2480	99	74-129
74-83-9	Bromomethane	2500	2350	94	62-132
78-93-3	2-Butanone (MEK)	2500	2570	103	46-148
75-15-0	Carbon disulfide	2500	2420	97	60-136
56-23-5	Carbon tetrachloride	2500	2440	98	69-134
108-90-7	Chlorobenzene	2500	2460	98	84-116
75-00-3	Chloroethane	2500	2410	96	62-137
67-66-3	Chloroform	2500	2320	93	78-121
74-87-3	Chloromethane	2500	2350	94	51-149
124-48-1	Dibromochloromethane	2500	2620	105	82-127
75-34-3	1,1-Dichloroethane	2500	2390	96	77-123
107-06-2	1,2-Dichloroethane	2500	2430	97	74-131
75-35-4	1,1-Dichloroethene	2500	2310	92	70-125
156-59-2	cis-1,2-Dichloroethene	2500	2290	92	77-122
156-60-5	trans-1,2-Dichloroethene	2500	2390	96	74-123
540-59-0	1,2-Dichloroethene (total)	5000	4680	94	76-122
78-87-5	1,2-Dichloropropane	2500	2400	96	81-119
10061-01-5	cis-1,3-Dichloropropene	2500	2330	93	82-120
10061-02-6	trans-1,3-Dichloropropene	2500	2280	91	80-123
100-41-4	Ethylbenzene	2500	2520	101	81-118
591-78-6	2-Hexanone	2500	2400	96	57-139
108-10-1	4-Methyl-2-pentanone(MIBK)	2500	2650	106	68-141
75-09-2	Methylene chloride	2500	2410	96	77-123
100-42-5	Styrene	2500	2560	102	82-126
79-34-5	1,1,2,2-Tetrachloroethane	2500	2680	107	75-125
127-18-4	Tetrachloroethene	2500	2590	104	67-129
108-88-3	Toluene	2500	2370	95	82-118
71-55-6	1,1,1-Trichloroethane	2500	2290	92	74-129
79-00-5	1,1,2-Trichloroethane	2500	2300	92	82-120
79-01-6	Trichloroethene	2500	2420	97	80-119
75-01-4	Vinyl chloride	2500	2620	105	62-139
1330-20-7	Xylene (total)	7500	7440	99	77-124

Blank Spike Summary

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Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C2071-BS	1C49677.D	1	03/26/08	MAH	n/a	n/a	V1C2071

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	68-123%
17060-07-0	1,2-Dichloroethane-D4	90%	59-136%
2037-26-5	Toluene-D8	94%	75-123%
460-00-4	4-Bromofluorobenzene	97%	65-140%

Blank Spike Summary

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Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C2073-BS	1C49721.D	1	03/27/08	MAH	n/a	n/a	V1C2073

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
1330-20-7	Xylene (total)	7500	7760	103	77-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	68-123%
17060-07-0	1,2-Dichloroethane-D4	98%	59-136%
2037-26-5	Toluene-D8	96%	75-123%
460-00-4	4-Bromofluorobenzene	96%	65-140%

Blank Spike Summary

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Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG5270-BS	G108726.D	1	03/27/08	SJM	n/a	n/a	VG5270

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	58.1	116	37-155
71-43-2	Benzene	50	56.7	113	80-116
75-27-4	Bromodichloromethane	50	50.3	101	81-123
75-25-2	Bromoform	50	47.8	96	74-129
74-83-9	Bromomethane	50	54.0	108	62-132
78-93-3	2-Butanone (MEK)	50	53.5	107	46-148
75-15-0	Carbon disulfide	50	59.7	119	60-136
56-23-5	Carbon tetrachloride	50	57.3	115	69-134
108-90-7	Chlorobenzene	50	59.0	118* a	84-116
75-00-3	Chloroethane	50	55.3	111	62-137
67-66-3	Chloroform	50	55.0	110	78-121
74-87-3	Chloromethane	50	48.8	98	51-149
124-48-1	Dibromochloromethane	50	52.2	104	82-127
75-34-3	1,1-Dichloroethane	50	55.4	111	77-123
107-06-2	1,2-Dichloroethane	50	51.7	103	74-131
75-35-4	1,1-Dichloroethene	50	56.1	112	70-125
156-59-2	cis-1,2-Dichloroethene	50	57.3	115	77-122
156-60-5	trans-1,2-Dichloroethene	50	61.8	124* a	74-123
540-59-0	1,2-Dichloroethene (total)	100	119	119	76-122
78-87-5	1,2-Dichloropropane	50	50.4	101	81-119
10061-01-5	cis-1,3-Dichloropropene	50	54.6	109	82-120
10061-02-6	trans-1,3-Dichloropropene	50	53.4	107	80-123
100-41-4	Ethylbenzene	50	57.4	115	81-118
591-78-6	2-Hexanone	50	53.5	107	57-139
108-10-1	4-Methyl-2-pentanone(MIBK)	50	47.1	94	68-141
75-09-2	Methylene chloride	50	55.4	111	77-123
100-42-5	Styrene	50	61.6	123	82-126
79-34-5	1,1,2,2-Tetrachloroethane	50	48.9	98	75-125
127-18-4	Tetrachloroethene	50	57.0	114	67-129
108-88-3	Toluene	50	57.2	114	82-118
71-55-6	1,1,1-Trichloroethane	50	56.5	113	74-129
79-00-5	1,1,2-Trichloroethane	50	50.4	101	82-120
79-01-6	Trichloroethene	50	57.5	115	80-119
75-01-4	Vinyl chloride	50	55.3	111	62-139

Blank Spike Summary

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Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG5270-BS	G108726.D	1	03/27/08	SJM	n/a	n/a	VG5270

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-1

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	91%	68-123%
17060-07-0	1,2-Dichloroethane-D4	83%	59-136%
2037-26-5	Toluene-D8	96%	75-123%
460-00-4	4-Bromofluorobenzene	89%	65-140%

(a) High percent recoveries and no associated positive found in the QC batch.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
J86562-3MS	1C49684.D	1	03/26/08	MAH	n/a	n/a	V1C2071
J86562-3MSD	1C49685.D	1	03/26/08	MAH	n/a	n/a	V1C2071
J86562-3	1C49686.D	1	03/26/08	MAH	n/a	n/a	V1C2071

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-2

CAS No.	Compound	J86562-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2510	2650	106	2530	101	5	28-172/38
71-43-2	Benzene	ND		2510	2150	86	2160	86	0	50-134/21
75-27-4	Bromodichloromethane	ND		2510	2130	85	2160	86	1	47-150/21
75-25-2	Bromoform	ND		2510	2190	87	2260	90	3	41-152/23
74-83-9	Bromomethane	ND		2510	2250	90	2320	92	3	12-138/36
78-93-3	2-Butanone (MEK)	ND		2510	2330	93	2410	96	3	37-165/35
75-15-0	Carbon disulfide	ND		2510	2050	82	2030	81	1	37-139/24
56-23-5	Carbon tetrachloride	ND		2510	2040	81	2000	80	2	30-168/24
108-90-7	Chlorobenzene	ND		2510	2250	90	2290	91	2	44-140/24
75-00-3	Chloroethane	ND		2510	2040	81	2150	86	5	8-143/33
67-66-3	Chloroform	ND		2510	2040	81	2070	82	1	55-137/21
74-87-3	Chloromethane	ND		2510	2450	98	2510	100	2	37-139/30
124-48-1	Dibromochloromethane	ND		2510	2370	94	2450	98	3	47-146/22
75-34-3	1,1-Dichloroethane	ND		2510	2180	87	2210	88	1	57-133/21
107-06-2	1,2-Dichloroethane	ND		2510	2090	83	2140	85	2	50-145/21
75-35-4	1,1-Dichloroethene	ND		2510	2100	84	2130	85	1	45-139/23
156-59-2	cis-1,2-Dichloroethene	ND		2510	2190	87	2200	88	0	53-136/20
156-60-5	trans-1,2-Dichloroethene	ND		2510	2090	83	2090	83	0	49-136/22
540-59-0	1,2-Dichloroethene (total)	ND		5020	4280	85	4290	85	0	51-136/21
78-87-5	1,2-Dichloropropane	ND		2510	2230	89	2290	91	3	56-133/20
10061-01-5	cis-1,3-Dichloropropene	ND		2510	2180	87	2230	89	2	50-137/20
10061-02-6	trans-1,3-Dichloropropene	ND		2510	2110	84	2160	86	2	46-143/22
100-41-4	Ethylbenzene	ND		2510	2230	89	2230	89	0	38-145/27
591-78-6	2-Hexanone	ND		2510	2170	86	2210	88	2	35-155/31
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		2510	2280	91	2380	95	4	48-147/26
75-09-2	Methylene chloride	ND		2510	2160	86	2220	88	3	53-134/20
100-42-5	Styrene	ND		2510	2230	89	2270	90	2	39-147/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		2510	2390	95	2410	96	1	47-134/26
127-18-4	Tetrachloroethene	ND		2510	2280	91	2340	93	3	38-155/27
108-88-3	Toluene	ND		2510	2230	89	2210	88	1	46-141/23
71-55-6	1,1,1-Trichloroethane	ND		2510	1950	78	1970	78	1	46-147/23
79-00-5	1,1,2-Trichloroethane	ND		2510	2210	88	2270	90	3	54-140/22
79-01-6	Trichloroethene	ND		2510	2140	85	2150	86	0	46-144/22
75-01-4	Vinyl chloride	ND		2510	2460	98	2490	99	1	43-135/28
1330-20-7	Xylene (total)	ND		7530	6800	90	6820	91	0	38-145/27

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
J86562-3MS	1C49684.D	1	03/26/08	MAH	n/a	n/a	V1C2071
J86562-3MSD	1C49685.D	1	03/26/08	MAH	n/a	n/a	V1C2071
J86562-3	1C49686.D	1	03/26/08	MAH	n/a	n/a	V1C2071

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-2

CAS No.	Surrogate Recoveries	MS	MSD	J86562-3	Limits
1868-53-7	Dibromofluoromethane	90%	91%	91%	68-123%
17060-07-0	1,2-Dichloroethane-D4	84%	85%	84%	59-136%
2037-26-5	Toluene-D8	95%	95%	93%	75-123%
460-00-4	4-Bromofluorobenzene	96%	96%	100%	65-140%

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
J86628-1MS	1C49726.D	1	03/27/08	MAH	n/a	n/a	V1C2073
J86628-1MSD	1C49727.D	1	03/27/08	MAH	n/a	n/a	V1C2073
J86628-1	1C49728.D	1	03/27/08	MAH	n/a	n/a	V1C2073

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-1

CAS No.	Compound	J86628-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
1330-20-7	Xylene (total)	ND		8120	6330	78	6500	80	3	38-145/27

CAS No.	Surrogate Recoveries	MS	MSD	J86628-1	Limits
1868-53-7	Dibromofluoromethane	93%	92%	94%	68-123%
17060-07-0	1,2-Dichloroethane-D4	86%	84%	87%	59-136%
2037-26-5	Toluene-D8	94%	94%	94%	75-123%
460-00-4	4-Bromofluorobenzene	94%	94%	97%	65-140%

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
J86058-1MS	G108734.D	1	03/27/08	SJM	n/a	n/a	VG5270
J86058-1MSD	G108735.D	1	03/27/08	SJM	n/a	n/a	VG5270
J86058-1	G108732.D	1	03/27/08	SJM	n/a	n/a	VG5270

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-1

CAS No.	Compound	J86058-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		76.8	68.7	89	107	139	44* a	28-172/38
71-43-2	Benzene	ND		76.8	56.0	73	57.9	75	3	50-134/21
75-27-4	Bromodichloromethane	ND		76.8	48.5	63	50.6	66	4	47-150/21
75-25-2	Bromoform	ND		76.8	47.3	62	51.9	68	9	41-152/23
74-83-9	Bromomethane	ND		76.8	47.0	61	47.6	62	1	12-138/36
78-93-3	2-Butanone (MEK)	ND		76.8	37.5	49	43.3	56	14	37-165/35
75-15-0	Carbon disulfide	ND		76.8	51.7	67	53.7	70	4	37-139/24
56-23-5	Carbon tetrachloride	ND		76.8	49.9	65	52.0	68	4	30-168/24
108-90-7	Chlorobenzene	ND		76.8	55.6	72	58.0	76	4	44-140/24
75-00-3	Chloroethane	ND		76.8	46.4	60	47.8	62	3	8-143/33
67-66-3	Chloroform	ND		76.8	51.7	67	53.4	70	3	55-137/21
74-87-3	Chloromethane	ND		76.8	38.5	50	37.2	48	3	37-139/30
124-48-1	Dibromochloromethane	ND		76.8	50.9	66	54.4	71	7	47-146/22
75-34-3	1,1-Dichloroethane	ND		76.8	50.7	66	53.3	69	5	57-133/21
107-06-2	1,2-Dichloroethane	ND		76.8	52.1	68	53.4	70	2	50-145/21
75-35-4	1,1-Dichloroethene	ND		76.8	49.4	64	51.2	67	4	45-139/23
156-59-2	cis-1,2-Dichloroethene	ND		76.8	53.0	69	55.5	72	5	53-136/20
156-60-5	trans-1,2-Dichloroethene	ND		76.8	54.4	71	57.7	75	6	49-136/22
540-59-0	1,2-Dichloroethene (total)	ND		154	107	70	113	74	5	51-136/21
78-87-5	1,2-Dichloropropane	ND		76.8	49.3	64	51.9	68	5	56-133/20
10061-01-5	cis-1,3-Dichloropropene	ND		76.8	52.9	69	55.6	72	5	50-137/20
10061-02-6	trans-1,3-Dichloropropene	ND		76.8	52.0	68	55.8	73	7	46-143/22
100-41-4	Ethylbenzene	ND		76.8	51.7	67	54.6	71	5	38-145/27
591-78-6	2-Hexanone	ND		76.8	38.0	49	44.9	58	17	35-155/31
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		76.8	48.9	64	57.9	75	17	48-147/26
75-09-2	Methylene chloride	ND		76.8	52.8	69	55.0	72	4	53-134/20
100-42-5	Styrene	ND		76.8	57.4	75	60.1	78	5	39-147/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		76.8	51.8	67	54.7	71	5	47-134/26
127-18-4	Tetrachloroethene	ND		76.8	63.2	82	68.5	89	8	38-155/27
108-88-3	Toluene	ND		76.8	54.1	70	56.5	74	4	46-141/23
71-55-6	1,1,1-Trichloroethane	ND		76.8	48.7	63	51.3	67	5	46-147/23
79-00-5	1,1,2-Trichloroethane	ND		76.8	52.8	69	57.2	74	8	54-140/22
79-01-6	Trichloroethene	ND		76.8	53.7	70	55.5	72	3	46-144/22
75-01-4	Vinyl chloride	ND		76.8	46.7	61	47.7	62	2	43-135/28

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
J86058-1MS	G108734.D	1	03/27/08	SJM	n/a	n/a	VG5270
J86058-1MSD	G108735.D	1	03/27/08	SJM	n/a	n/a	VG5270
J86058-1	G108732.D	1	03/27/08	SJM	n/a	n/a	VG5270

The QC reported here applies to the following samples:

Method: SW846 8260B

J85904-1

CAS No.	Surrogate Recoveries	MS	MSD	J86058-1	Limits
1868-53-7	Dibromofluoromethane	86%	86%	84%	68-123%
17060-07-0	1,2-Dichloroethane-D4	77%	78%	77%	59-136%
2037-26-5	Toluene-D8	97%	97%	99%	75-123%
460-00-4	4-Bromofluorobenzene	87%	88%	88%	65-140%

(a) Outside control limits due to matrix interference.

Instrument Performance Check (BFB)

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Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample:	V1C2051-BFB	Injection Date:	03/13/08
Lab File ID:	1C49258.D	Injection Time:	12:34
Instrument ID:	GCMS1C		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	18125	22.6	Pass
75	30.0 - 60.0% of mass 95	45024	56.2	Pass
95	Base peak, 100% relative abundance	80080	100.0	Pass
96	5.0 - 9.0% of mass 95	5450	6.8	Pass
173	Less than 2.0% of mass 174	0	0.0 (0.0) ^a	Pass
174	50.0 - 120.0% of mass 95	82029	102.4	Pass
175	5.0 - 9.0% of mass 174	5896	7.4 (7.2) ^a	Pass
176	95.0 - 101.0% of mass 174	80085	100.0 (97.6) ^a	Pass
177	5.0 - 9.0% of mass 176	5369	6.7 (6.7) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C2051-IC2051	1C49259.D	03/13/08	13:06	00:32	Initial cal 1
V1C2051-IC2051	1C49260.D	03/13/08	13:36	01:02	Initial cal 2
V1C2051-IC2051	1C49261.D	03/13/08	14:06	01:32	Initial cal 5
V1C2051-IC2051	1C49262.D	03/13/08	14:36	02:02	Initial cal 10
V1C2051-IC2051	1C49263.D	03/13/08	15:06	02:32	Initial cal 20
V1C2051-ICC2051	1C49264.D	03/13/08	15:36	03:02	Initial cal 50
V1C2051-IC2051	1C49265.D	03/13/08	16:06	03:32	Initial cal 100
V1C2051-IC2051	1C49266.D	03/13/08	16:36	04:02	Initial cal 200

Instrument Performance Check (BFB)

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Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample:	V1C2071-BFB	Injection Date:	03/26/08
Lab File ID:	1C49673.D	Injection Time:	09:21
Instrument ID:	GCMS1C		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14076	22.5	Pass
75	30.0 - 60.0% of mass 95	35840	57.4	Pass
95	Base peak, 100% relative abundance	62485	100.0	Pass
96	5.0 - 9.0% of mass 95	4279	6.8	Pass
173	Less than 2.0% of mass 174	0	0.0 (0.0) ^a	Pass
174	50.0 - 120.0% of mass 95	63306	101.3	Pass
175	5.0 - 9.0% of mass 174	4605	7.4 (7.3) ^a	Pass
176	95.0 - 101.0% of mass 174	61376	98.2 (97.0) ^a	Pass
177	5.0 - 9.0% of mass 176	4450	7.1 (7.3) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C2071-CC2051	1C49674.D	03/26/08	09:59	00:38	Continuing cal 20
V1C2071-MB	1C49676.D	03/26/08	11:09	01:48	Method Blank
V1C2071-BS	1C49677.D	03/26/08	11:50	02:29	Blank Spike
ZZZZZZ	1C49678.D	03/26/08	12:27	03:06	(unrelated sample)
ZZZZZZ	1C49679.D	03/26/08	12:58	03:37	(unrelated sample)
ZZZZZZ	1C49680.D	03/26/08	13:28	04:07	(unrelated sample)
ZZZZZZ	1C49682.D	03/26/08	14:28	05:07	(unrelated sample)
ZZZZZZ	1C49683.D	03/26/08	14:58	05:37	(unrelated sample)
J86562-3MS	1C49684.D	03/26/08	15:28	06:07	Matrix Spike
J86562-3MSD	1C49685.D	03/26/08	15:58	06:37	Matrix Spike Duplicate
J86562-3	1C49686.D	03/26/08	16:32	07:11	(used for QC only; not part of job J85904)
ZZZZZZ	1C49687.D	03/26/08	17:02	07:41	(unrelated sample)
ZZZZZZ	1C49688.D	03/26/08	17:32	08:11	(unrelated sample)
ZZZZZZ	1C49689.D	03/26/08	18:02	08:41	(unrelated sample)
J85904-2	1C49690.D	03/26/08	18:32	09:11	S2387RF4
ZZZZZZ	1C49693.D	03/26/08	20:03	10:42	(unrelated sample)
ZZZZZZ	1C49694.D	03/26/08	20:33	11:12	(unrelated sample)
ZZZZZZ	1C49695.D	03/26/08	21:03	11:42	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: V1C2073-BFB Injection Date: 03/27/08
Lab File ID: 1C49717.D Injection Time: 08:35
Instrument ID: GCMS1C

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	24730	24.7	Pass
75	30.0 - 60.0% of mass 95	59792	59.8	Pass
95	Base peak, 100% relative abundance	99994	100.0	Pass
96	5.0 - 9.0% of mass 95	6966	7.0	Pass
173	Less than 2.0% of mass 174	0	0.0 (0.0) ^a	Pass
174	50.0 - 120.0% of mass 95	98586	98.6	Pass
175	5.0 - 9.0% of mass 174	7312	7.3 (7.4) ^a	Pass
176	95.0 - 101.0% of mass 174	95320	95.3 (96.7) ^a	Pass
177	5.0 - 9.0% of mass 176	6433	6.4 (6.7) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1C2073-CC2051	1C49718.D	03/27/08	09:14	00:39	Continuing cal 20
V1C2073-MB	1C49720.D	03/27/08	10:32	01:57	Method Blank
V1C2073-BS	1C49721.D	03/27/08	11:13	02:38	Blank Spike
ZZZZZZ	1C49722.D	03/27/08	12:02	03:27	(unrelated sample)
ZZZZZZ	1C49723.D	03/27/08	12:31	03:56	(unrelated sample)
ZZZZZZ	1C49724.D	03/27/08	13:02	04:27	(unrelated sample)
ZZZZZZ	1C49725.D	03/27/08	13:32	04:57	(unrelated sample)
J86628-1MS	1C49726.D	03/27/08	14:02	05:27	Matrix Spike
J86628-1MSD	1C49727.D	03/27/08	14:32	05:57	Matrix Spike Duplicate
J86628-1	1C49728.D	03/27/08	15:02	06:27	(used for QC only; not part of job J85904)
ZZZZZZ	1C49729.D	03/27/08	15:32	06:57	(unrelated sample)
ZZZZZZ	1C49730.D	03/27/08	16:02	07:27	(unrelated sample)
ZZZZZZ	1C49731.D	03/27/08	16:31	07:56	(unrelated sample)
ZZZZZZ	1C49732.D	03/27/08	17:04	08:29	(unrelated sample)
J85904-1	1C49733.D	03/27/08	17:34	08:59	S2197RB2
ZZZZZZ	1C49735.D	03/27/08	18:34	09:59	(unrelated sample)
ZZZZZZ	1C49736.D	03/27/08	19:04	10:29	(unrelated sample)
ZZZZZZ	1C49737.D	03/27/08	19:34	10:59	(unrelated sample)
ZZZZZZ	1C49738.D	03/27/08	20:05	11:30	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VG5266-BFB	Injection Date: 03/25/08
Lab File ID: G108660.D	Injection Time: 12:06
Instrument ID: GCMSG	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	7037	24.8	Pass
75	30.0 - 60.0% of mass 95	15395	54.3	Pass
95	Base peak, 100% relative abundance	28346	100.0	Pass
96	5.0 - 9.0% of mass 95	2193	7.7	Pass
173	Less than 2.0% of mass 174	0	0.0 (0.0) ^a	Pass
174	50.0 - 120.0% of mass 95	21890	77.2	Pass
175	5.0 - 9.0% of mass 174	1763	6.2 (8.1) ^a	Pass
176	95.0 - 101.0% of mass 174	21752	76.7 (99.4) ^a	Pass
177	5.0 - 9.0% of mass 176	1606	5.7 (7.4) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG5266-IC5266	G108661.D	03/25/08	12:41	00:35	Initial cal 1
VG5266-IC5266	G108662.D	03/25/08	13:16	01:10	Initial cal 5
VG5266-IC5266	G108663.D	03/25/08	13:51	01:45	Initial cal 10
VG5266-IC5266	G108664.D	03/25/08	14:26	02:20	Initial cal 20
VG5266-ICC5266	G108665.D	03/25/08	15:01	02:55	Initial cal 50
VG5266-IC5266	G108666.D	03/25/08	15:41	03:35	Initial cal 100
VG5266-IC5266	G108667.D	03/25/08	16:16	04:10	Initial cal 200

Instrument Performance Check (BFB)

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Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VG5270-BFB1 Injection Date: 03/27/08
Lab File ID: G108722.D Injection Time: 08:58
Instrument ID: GCMMSG

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	6129	23.3	Pass
75	30.0 - 60.0% of mass 95	13767	52.3	Pass
95	Base peak, 100% relative abundance	26320	100.0	Pass
96	5.0 - 9.0% of mass 95	1984	7.5	Pass
173	Less than 2.0% of mass 174	0	0.0 (0.0) ^a	Pass
174	50.0 - 120.0% of mass 95	19560	74.3	Pass
175	5.0 - 9.0% of mass 174	1547	5.9 (7.9) ^a	Pass
176	95.0 - 101.0% of mass 174	19306	73.4 (98.7) ^a	Pass
177	5.0 - 9.0% of mass 176	1318	5.0 (6.8) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VG5270-CC5266	G108723.D	03/27/08	09:46	00:48	Continuing cal 50
VG5270-MB1	G108725.D	03/27/08	11:10	02:12	Method Blank
VG5270-BS	G108726.D	03/27/08	11:52	02:54	Blank Spike
ZZZZZZ	G108729.D	03/27/08	13:41	04:43	(unrelated sample)
J85904-1	G108730.D	03/27/08	14:20	05:22	S2197RB2
J86058-1	G108732.D	03/27/08	15:30	06:32	(used for QC only; not part of job J85904)
ZZZZZZ	G108733.D	03/27/08	16:05	07:07	(unrelated sample)
J86058-1MS	G108734.D	03/27/08	16:40	07:42	Matrix Spike
J86058-1MSD	G108735.D	03/27/08	17:18	08:20	Matrix Spike Duplicate
ZZZZZZ	G108736.D	03/27/08	17:53	08:55	(unrelated sample)
ZZZZZZ	G108737.D	03/27/08	18:28	09:30	(unrelated sample)
ZZZZZZ	G108738.D	03/27/08	19:03	10:05	(unrelated sample)
ZZZZZZ	G108739.D	03/27/08	19:38	10:40	(unrelated sample)
ZZZZZZ	G108740.D	03/27/08	20:14	11:16	(unrelated sample)
ZZZZZZ	G108741.D	03/27/08	20:49	11:51	(unrelated sample)

Volatile Internal Standard Area Summary

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Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Check Std:	V1C2071-CC2051	Injection Date:	03/26/08
Lab File ID:	1C49674.D	Injection Time:	09:59
Instrument ID:	GCMS1C	Method:	SW846 8260B

	IS 1		IS 2		IS 3		IS 4		IS 5	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	116047	9.20	232258	11.59	296764	12.55	277588	15.88	180927	18.37
Upper Limit ^a	232094	9.70	464516	12.09	593528	13.05	555176	16.38	361854	18.87
Lower Limit ^b	58024	8.70	116129	11.09	148382	12.05	138794	15.38	90464	17.87

Lab	IS 1		IS 2		IS 3		IS 4		IS 5	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
V1C2071-MB	89188	9.21	207074	11.59	272674	12.55	258643	15.88	163334	18.38
V1C2071-BS	108509	9.20	213113	11.59	278210	12.56	258899	15.88	171340	18.37
ZZZZZZ	80807	9.20	206359	11.59	271624	12.55	260323	15.88	170731	18.37
ZZZZZZ	88445	9.20	221851	11.59	291093	12.55	273651	15.88	175196	18.37
ZZZZZZ	87714	9.21	231412	11.59	312125	12.55	302154	15.88	196041	18.37
ZZZZZZ	87363	9.21	231694	11.59	301598	12.55	285084	15.88	182334	18.37
ZZZZZZ	98563	9.21	246630	11.59	320375	12.56	327641	15.88	193025	18.38
J86562-3MS	82076	9.21	238946	11.59	310816	12.55	294499	15.88	192290	18.37
J86562-3MSD	81692	9.20	232211	11.59	303859	12.55	286233	15.88	188601	18.37
J86562-3	80537	9.21	229287	11.59	303375	12.55	288181	15.88	179111	18.37
ZZZZZZ	97496	9.19	222380	11.59	294310	12.55	276572	15.88	178107	18.37
ZZZZZZ	94118	9.21	218896	11.59	286603	12.55	272034	15.88	170938	18.37
ZZZZZZ	72312	9.20	207258	11.59	280284	12.55	267793	15.88	187544	18.37
J85904-2 ^c	99452	9.19	227594	11.59	300508	12.55	287340	15.88	194220	18.37
ZZZZZZ	88617	9.20	219344	11.59	289041	12.56	270649	15.88	175887	18.37
ZZZZZZ	83512	9.20	214842	11.59	285143	12.55	270238	15.88	176049	18.37
ZZZZZZ	84957	9.20	215355	11.59	283691	12.55	266877	15.88	169253	18.37

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

(c) Dilution required due to matrix interference.

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Check Std:	V1C2073-CC2051	Injection Date:	03/27/08
Lab File ID:	1C49718.D	Injection Time:	09:14
Instrument ID:	GCMS1C	Method:	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	80890	9.19	188611	11.59	241273	12.55	228770	15.88	153101	18.37
Upper Limit ^a	161780	9.69	377222	12.09	482546	13.05	457540	16.38	306202	18.87
Lower Limit ^b	40445	8.69	94306	11.09	120637	12.05	114385	15.38	76551	17.87

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1C2073-MB	79726	9.21	181744	11.59	233444	12.55	224800	15.88	145105	18.37
V1C2073-BS	83420	9.19	180970	11.59	233838	12.56	223934	15.88	152069	18.37
ZZZZZZ	77672	9.20	192004	11.59	251938	12.55	237483	15.88	147424	18.37
ZZZZZZ	85176	9.21	184518	11.59	243439	12.55	240207	15.88	163920	18.37
ZZZZZZ	104318	9.20	209148	11.59	273609	12.56	260219	15.88	169215	18.37
ZZZZZZ	144282	9.21	216128	11.59	299457	12.55	291483	15.88	197374	18.37
J86628-1MS	126676	9.21	229228	11.59	295701	12.55	278870	15.88	189305	18.37
J86628-1MSD	103019	9.22	231217	11.59	301549	12.55	283718	15.88	191321	18.37
J86628-1	101246	9.21	222917	11.59	297286	12.55	279234	15.88	181633	18.37
ZZZZZZ	102369	9.21	223332	11.59	292752	12.55	275540	15.88	177854	18.37
ZZZZZZ	101852	9.21	220823	11.59	289653	12.55	272409	15.88	175828	18.37
ZZZZZZ	99642	9.19	213514	11.59	281775	12.55	268093	15.88	169918	18.38
ZZZZZZ	93074	9.20	207504	11.59	277692	12.56	261124	15.88	177610	18.37
J85904-1	108251	9.21	223432	11.59	298247	12.55	286854	15.88	190145	18.37
ZZZZZZ	100208	9.22	228295	11.59	301938	12.55	286443	15.88	182242	18.37
ZZZZZZ	98373	9.21	228284	11.59	300173	12.55	285854	15.88	179872	18.37
ZZZZZZ	96797	9.21	220665	11.59	291498	12.55	272621	15.88	184111	18.37
ZZZZZZ	108349	9.19	215987	11.59	284752	12.55	272584	15.88	186390	18.37

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Check Std:	VG5270-CC5266	Injection Date:	03/27/08
Lab File ID:	G108723.D	Injection Time:	09:46
Instrument ID:	GCMSG	Method:	SW846 8260B

	IS 1		IS 2		IS 3		IS 4		IS 5	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	95509	5.82	382274	9.57	449660	11.58	336748	17.78	202543	22.21
Upper Limit ^a	191018	6.32	764548	10.07	899320	12.08	673496	18.28	405086	22.71
Lower Limit ^b	47755	5.32	191137	9.07	224830	11.08	168374	17.28	101272	21.71

Lab	IS 1		IS 2		IS 3		IS 4		IS 5	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
VG5270-MB1	101512	5.83	413021	9.60	468388	11.60	368359	17.79	202664	22.23
VG5270-BS	88447	5.84	355843	9.59	429144	11.59	310804	17.78	189347	22.22
ZZZZZZ	113374	5.87	389144	9.60	476126	11.59	228177	17.81	76572*	22.25
J85904-1	128265	5.85	400374	9.58	517133	11.59	357965	17.79	169961	22.24
J86058-1	128202	5.83	478137	9.58	514618	11.60	414791	17.80	235231	22.23
ZZZZZZ	108533	5.84	497203	9.59	535910	11.60	425160	17.79	223087	22.23
J86058-1MS	119029	5.85	483529	9.59	553481	11.60	417585	17.80	248024	22.23
J86058-1MSD	130590	5.85	473402	9.59	545413	11.59	409133	17.79	247441	22.23
ZZZZZZ	152844	5.85	515715	9.60	575627	11.60	468357	17.79	262461	22.23
ZZZZZZ	145819	5.84	482591	9.59	536342	11.60	418049	17.80	213787	22.24
ZZZZZZ	132944	5.86	465046	9.59	521360	11.61	412854	17.79	215008	22.24
ZZZZZZ	117985	5.85	429738	9.60	494765	11.60	360873	17.80	147384	22.24
ZZZZZZ	140341	5.84	445074	9.60	513567	11.60	371638	17.79	189560	22.23
ZZZZZZ	139398	5.84	449148	9.59	499912	11.61	392005	17.79	215852	22.24

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Method: SW846 8260B

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
J85904-1	1C49733.D	93.0	91.0	94.0	95.0
J85904-1	G108730.D	84.0	85.0	89.0	134.0
J85904-2	1C49690.D	92.0	89.0	96.0	92.0
J86058-1MS	G108734.D	86.0	77.0	97.0	87.0
J86058-1MSD	G108735.D	86.0	78.0	97.0	88.0
J86562-3MS	1C49684.D	90.0	84.0	95.0	96.0
J86562-3MSD	1C49685.D	91.0	85.0	95.0	96.0
J86628-1MS	1C49726.D	93.0	86.0	94.0	94.0
J86628-1MSD	1C49727.D	92.0	84.0	94.0	94.0
V1C2071-BS	1C49677.D	95.0	90.0	94.0	97.0
V1C2071-MB	1C49676.D	92.0	90.0	93.0	99.0
V1C2073-BS	1C49721.D	98.0	98.0	96.0	96.0
V1C2073-MB	1C49720.D	93.0	97.0	94.0	100.0
VG5270-BS	G108726.D	91.0	83.0	96.0	89.0
VG5270-MB1	G108725.D	87.0	79.0	97.0	91.0

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane	68-123%
S2 = 1,2-Dichloroethane-D4	59-136%
S3 = Toluene-D8	75-123%
S4 = 4-Bromofluorobenzene	65-140%

Initial Calibration Summary

Page 1 of 3

Job Number: J85904
 Account: EHTXF Entact Houston
 Project: Chevron, Perth Amboy

Sample: VIC2051-ICC2051
 Lab FileID: 1C49264.D

Response Factor Report MS1C

Method : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
 Title : SW-846 Method 8260B
 Last Update : Thu Mar 13 17:13:49 2008
 Response via : Initial Calibration

Calibration Files

1 =1C49259.D 2 =1C49260.D 100 =1C49265.D 50 =1C49264.D
 20 =1C49263.D 200 =1C49266.D 5 =1C49261.D 10 =1C49262.D

Compound	1	2	100	50	20	200	5	10	Avg	%RSD
1) I Tert Butyl Alcohol-d9 -----ISTD-----										
2) tertiary but	0.865	1.200	1.201	1.176	1.149	0.967	1.055	1.088	11.99	
3) 1,4-dioxane	0.072	0.070	0.071	0.065	0.071	0.069	0.070	3.69		
4) I pentafluorobenzene -----ISTD-----										
5) chlorodifluo	0.511	0.615	0.627	0.662	0.663	0.559	0.672	0.665	0.622	9.40
6) dichlorodifl	0.706	0.715	0.713	0.597	0.552	0.785	0.678	12.70		
7) chloromethan	0.717	0.609	0.561	0.556	0.568	0.465	0.559	0.620	0.582	12.34
8) vinyl chlori	0.583	0.609	0.532	0.535	0.535	0.450	0.520	0.564	0.541	8.78
9) bromomethane	0.425	0.366	0.382	0.369	0.369	0.318	0.369	0.390	0.373	7.93
10) chloroethane	0.275	0.303	0.282	0.277	0.277	0.236	0.262	0.286	0.275	7.09
11) trichloroflu	0.928	1.007	1.025	1.016	1.030	0.851	0.978	1.104	0.992	7.63
12) ethyl ether	0.197	0.170	0.244	0.237	0.217	0.227	0.208	0.234	0.217	11.34
13) acrolein	0.013	0.012	0.011	0.012	0.006	0.008	0.010	29.47		
----- Linear regression ----- Coefficient = 0.9979										
Response Ratio = -0.00464 + 0.01257 *A										
14) 1,1-dichloro	0.426	0.321	0.442	0.437	0.413	0.401	0.419	0.425	0.411	9.34
15) acetone	0.161	0.158	0.134	0.147	0.148	0.150	7.12			
16) allyl chlori	1.055	1.055	1.270	1.230	1.333	1.142	1.137	1.209	1.179	8.46
17) acetonitrile	0.040	0.032	0.039	0.038	0.039	0.034	0.035	0.036	0.037	7.11
18) iodomethane	0.842	0.760	0.961	0.914	0.895	0.868	0.875	0.919	0.879	6.88
19) iso-butyl al	0.007	0.007	0.007	0.007	0.007	0.006	0.007	0.007	6.53	
20) carbon disul	1.510	1.251	1.450	1.428	1.354	1.334	1.339	1.418	1.385	5.90
21) methylene ch	0.515	0.407	0.484	0.477	0.457	0.435	0.442	0.475	0.462	7.27
22) methyl aceta	0.330	0.321	0.316	0.294	0.334	0.330	0.321	4.63		
23) methyl tert	1.941	1.490	1.759	1.758	1.672	1.561	1.625	1.752	1.695	8.27
24) trans-1,2-di	0.469	0.441	0.483	0.483	0.456	0.435	0.462	0.477	0.463	3.95
25) di-isopropyl	1.224	1.294	1.479	1.492	1.405	1.330	1.371	1.390	1.373	6.56
26) 2-butanone	0.057	0.053	0.052	0.052	0.047	0.052	6.77			
27) 1,1-dichloro	0.797	0.753	0.926	0.906	0.894	0.832	0.833	0.885	0.853	6.95
28) chloroprene	0.615	0.772	0.789	0.746	0.701	0.725	0.754	0.729	7.95	
29) acrylonitril	0.127	0.106	0.153	0.153	0.143	0.139	0.131	0.150	0.138	11.62
30) vinyl acetat	0.083	0.085	0.067	0.077	0.074	0.077	9.50			
31) ethyl tert-b	1.984	1.703	1.690	1.698	1.648	1.508	1.627	1.631	1.686	8.05
32) ethyl acetat	0.057	0.057	0.053	0.052	0.039	0.052	0.052	12.34		
33) 2,2-dichloro	1.081	0.946	1.022	1.060	1.016	0.939	1.018	1.062	1.018	5.14
34) cis-1,2-dich	0.524	0.463	0.534	0.532	0.508	0.495	0.492	0.524	0.509	4.84
35) propionitril	0.050	0.049	0.059	0.060	0.056	0.055	0.055	0.058	0.055	7.36
36) methylacryla	0.471	0.479	0.443	0.435	0.376	0.455	0.443	8.31		
37) bromochlorom	0.258	0.275	0.288	0.290	0.268	0.267	0.261	0.279	0.273	4.35
38) tetrahydrofu	0.134	0.136	0.135	0.114	0.171	0.152	0.140	13.63		
39) chloroform	1.144	0.927	1.044	1.046	1.009	0.949	0.958	1.047	1.016	6.95
40) dibromofluor	0.574	0.542	0.545	0.541	0.477	0.535	0.535	5.42		
41) 1,2-dichloro	0.853	0.775	0.802	0.815	0.662	0.815	0.806	0.790	7.69	
42) freon 113	0.303	0.405	0.404	0.389	0.378	0.378	0.401	0.380	9.38	

Initial Calibration Summary

Page 2 of 3

Job Number: J85904
 Account: EHTXF Entact Houston
 Project: Chevron, Perth Amboy

Sample: VIC2051-ICC2051
 Lab FileID: IC49264.D

43)	methacryloni	0.210	0.199	0.293	0.284	0.263	0.262	0.257	0.276	0.255	13.20
44)	1,1,1-trichl	1.099	0.972	1.104	1.129	1.120	0.995	1.027	1.142	1.073	6.13
45)	Cyclohexane	0.509	0.556	0.686	0.690	0.674	0.645	0.634	0.723	0.640	11.36
46)	I 1,4-difluorobenzene	-----ISTD-----									
47)	epichlorohyd	0.031	0.036	0.037	0.037	0.033	0.037	0.035	0.035	0.035	6.45
48)	n-butyl alco	0.011	0.008	0.009	0.009	0.009	0.008	0.009	0.009	0.009#	10.44
49)	carbon tetra	0.732	0.683	0.813	0.848	0.792	0.733	0.748	0.826	0.772	7.32
50)	1,1-dichloro	0.506	0.459	0.535	0.545	0.520	0.488	0.502	0.526	0.510	5.44
51)	hexane		0.346	0.358	0.315	0.327	0.328	0.330	0.334		4.58
52)	benzene	1.423	1.238	1.339	1.343	1.283	1.239	1.244	1.318	1.303	5.00
53)	tert-amyl me	1.325	1.272	1.356	1.382	1.314	1.204	1.272	1.324	1.306	4.27
54)	heptane		0.170	0.172	0.153	0.163	0.162	0.169	0.165		4.21
55)	isopropyl ac	0.511	0.574	0.693	0.704	0.663	0.608	0.623	0.640	0.627	10.13
56)	1,2-dichloro	0.712	0.645	0.714	0.753	0.712	0.626	0.686	0.708	0.695	5.91
57)	trichloroeth	0.393	0.361	0.401	0.398	0.391	0.368	0.356	0.391	0.382	4.58
58)	2-nitropropa		0.355	0.370	0.379	0.309		0.365	0.356		7.69
59)	2-chloroethy	0.191	0.193	0.229	0.224	0.216	0.207	0.208	0.216	0.211	6.43
60)	methyl metha		0.349	0.340	0.321	0.328		0.312	0.330		4.49
61)	1,2-dichloro	0.313	0.284	0.344	0.340	0.325	0.312	0.327	0.338	0.323	6.09
62)	dibromometha	0.301	0.237	0.273	0.274	0.269	0.246	0.257	0.274	0.266	7.39
63)	methylcycloh		0.381	0.529	0.526	0.492	0.501	0.495	0.513	0.491	10.36
64)	bromodichlor	0.587	0.554	0.654	0.658	0.620	0.588	0.590	0.626	0.610	5.94
65)	cis-1,3-dich	0.643	0.593	0.667	0.654	0.630	0.614	0.600	0.629	0.629	4.10
66)	toluene-d8 (1.462	1.400	1.367	1.348	1.246	1.326	1.327	1.354		4.96
67)	4-methyl-2-p		0.134	0.129	0.130	0.120	0.115	0.126	0.125		5.60
68)	toluene	0.812	0.769	0.923	0.907	0.863	0.855	0.830	0.881	0.855	5.90
69)	3-methyl-1-b		0.016	0.016	0.016	0.014	0.014	0.015	0.015		5.86
70)	trans-1,3-di	0.685	0.590	0.717	0.720	0.681	0.650	0.645	0.681	0.671	6.31
71)	ethyl methac	0.362	0.320	0.486	0.472	0.454	0.446	0.385	0.432	0.420	13.82
72)	1,1,2-trichl	0.287	0.231	0.279	0.276	0.262	0.257	0.253	0.267	0.264	6.66
73)	2-hexanone		0.141	0.137	0.131	0.132	0.119	0.133	0.132		5.55
74)	I chlorobenzene-d5	-----ISTD-----									
75)	tetrachloroe	0.359	0.325	0.398	0.399	0.382	0.361	0.360	0.396	0.373	6.95
76)	1,3-dichloro	0.493	0.462	0.553	0.555	0.536	0.501	0.498	0.554	0.519	6.77
77)	butyl acetat		0.168	0.217	0.220	0.210	0.191	0.183	0.202	0.199	9.59
78)	dibromochlor	0.466	0.384	0.517	0.523	0.483	0.463	0.450	0.481	0.471	9.20
79)	1,2-dibromoe	0.331	0.308	0.362	0.358	0.346	0.329	0.331	0.350	0.339	5.28
80)	n-butyl ethe		0.014	0.014	0.011	0.014		0.011	0.013		14.67
81)	chlorobenzen	1.102	0.978	1.129	1.129	1.085	1.034	1.063	1.105	1.078	4.78
82)	1,1,1,2-tetr	0.554	0.447	0.515	0.518	0.500	0.464	0.485	0.523	0.501	6.90
83)	ethylbenzene	1.838	1.645	1.879	1.907	1.834	1.736	1.750	1.902	1.811	5.13
84)	m,p-xylene	0.692	0.624	0.745	0.743	0.722	0.687	0.706	0.739	0.707	5.72
85)	o-xylene	0.699	0.620	0.757	0.757	0.734	0.696	0.654	0.764	0.710	7.40
86)	styrene	1.065	0.967	1.250	1.249	1.175	1.163	1.106	1.176	1.144	8.35
87)	bromoform	0.403	0.335	0.445	0.446	0.420	0.397	0.375	0.418	0.405	9.06
88)	I 1,4-dichlorobenzene-d	-----ISTD-----									
89)	isopropylben	2.459	2.093	2.640	2.614	2.387	2.526	2.221	2.467	2.426	7.76
90)	4-bromofluor		0.935	0.916	0.911	0.863	0.841	0.859	0.881	0.887	3.90
91)	cyclohexanon		0.043	0.044	0.043	0.040	0.038	0.042	0.042		5.10
92)	bromobenzene	0.917	0.768	0.908	0.898	0.837	0.859	0.817	0.852	0.857	5.88
93)	1,1,2,2-tetr	0.749	0.581	0.660	0.660	0.634	0.612	0.599	0.633	0.641	8.09
94)	trans-1,4-di	0.340	0.224	0.301	0.297	0.284	0.278	0.279	0.288	0.287	11.22
95)	1,2,3-trichl	0.254	0.205	0.247	0.244	0.237	0.223	0.229	0.225	0.233	6.73
96)	n-propylbenz	3.137	2.813	3.380	3.299	3.098	3.190	2.886	3.235	3.130	6.23
97)	2-chlorotolu	2.510	2.151	2.479	2.490	2.357	2.308	2.312	2.435	2.380	5.14
98)	4-chlorotolu	2.264	1.948	2.262	2.265	2.142	2.117	2.015	2.172	2.148	5.55
99)	1,3,5-trimet	2.429	2.207	2.588	2.581	2.415	2.406	2.334	2.428	2.424	5.10

Initial Calibration Summary

Page 3 of 3

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VIC2051-ICC2051
Lab FileID: 1C49264.D

100)	tert-butylbe	1.836	1.556	1.867	1.884	1.768	1.705	1.689	1.551	1.732	7.55
101)	pentachloroe	0.570	0.552	0.631	0.637	0.600	0.589	0.556	0.594	0.591	5.34
102)	1,2,4-trimet	2.604	2.277	2.673	2.683	2.571	2.474	2.348	2.551	2.523	5.82
103)	sec-butylben	2.554	2.333	2.942	2.953	2.704	2.746	2.575	2.790	2.700	7.72
104)	1,3-dichloro	1.630	1.440	1.625	1.619	1.568	1.507	1.463	1.585	1.555	4.84
105)	p-isopropylt	2.323	2.108	2.708	2.728	2.495	2.503	2.387	2.564	2.477	8.26
106)	1,4-dichloro	1.704	1.542	1.680	1.675	1.618	1.544	1.593	1.666	1.628	3.88
107)	benzyl chlor	2.015	1.831	1.937	1.975	1.958	1.829	1.825	1.894	1.908	3.89
108)	1,2-dichloro	1.561	1.371	1.522	1.500	1.392	1.394	1.386	1.450	1.447	5.02
109)	n-butylbenze	2.036	1.789	2.172	2.162	1.953	2.021	1.853	2.064	2.006	6.79
110)	1,2-dibromo-	0.164	0.143	0.162	0.164	0.154	0.145	0.173	0.155	0.157	6.51
111)	1,2,4-trichl	0.951	0.772	0.915	0.921	0.848	0.803	0.808	0.849	0.859	7.49
112)	hexachlorobu	0.477	0.383	0.526	0.518	0.450	0.466	0.409	0.481	0.464	10.63
113)	naphthalene	1.676	1.446	1.699	1.728	1.612	1.399	1.515	1.584	1.582	7.60
114)	1,2,3-trichl	0.502	0.483	0.490	0.540	0.500	0.357	0.456	0.489	0.477	11.27
115)	hexachloroet	0.543	0.422	0.597	0.584	0.535	0.552	0.543	0.540	0.539	9.70

(#) = Out of Range ### Number of calibration levels exceeded format ###

M1C2051.M

Fri Mar 21 12:24:59 2008 MS1C

Initial Calibration Verification

Page 1 of 3

Job Number: J85904
 Account: EHTXF Entact Houston
 Project: Chevron, Perth Amboy

Sample: VIC2052-ICV2051
 Lab FileID: 1C49273.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\VIC2052\1C49273.D Vial: 16
 Acq On : 13 Mar 2008 8:31 pm Operator: MaoH
 Sample : icv2051-50 Inst : MS1C
 Misc : MS61890,VIC2052,5,,100,5,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
 Title : SW-846 Method 8260B
 Last Update : Thu Mar 13 17:13:49 2008
 Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	114	0.00	9.18
2	tertiary butyl alcohol	1.088	1.143	-5.1	109	0.00	9.31
3	1,4-dioxane	0.070	0.068	2.9	111	0.00	13.30
4 I	pentafluorobenzene	1.000	1.000	0.0	108	0.00	11.59
5	chlorodifluoromethane	0.622	0.631	-1.4	103	0.00	5.08
6	dichlorodifluoromethane	0.678	0.761	-12.2	115	0.00	5.03
7	chloromethane	0.582	0.630	-8.2	123	0.00	5.53
8	vinyl chloride	0.541	0.638	-17.9	129	0.00	5.85
9	bromomethane	0.373	0.429	-15.0	126	0.00	6.66
10	chloroethane	0.275	0.312	-13.5	122	0.00	6.87
11	trichlorofluoromethane	0.992	1.060	-6.9	113	-0.01	7.46
12	ethyl ether	0.217	0.254	-17.1	116	0.00	7.93
----- True Calc. % Drift -----							
13	acrolein	500.000	3345.653	-569.1#	734	-0.03	8.23
		AvgRF	CCRF	% Dev			
14	1,1-dichloroethene	0.411	0.450	-9.5	111	-0.01	8.43
15	acetone	0.150	0.159	-6.0	109	0.00	8.51
16	allyl chloride	1.179	1.379	-17.0	121	0.00	9.03
17	acetonitrile	0.037	0.041	-10.8	118	-0.01	9.03
18	iodomethane	0.879	1.017	-15.7	120	0.00	8.76
19	iso-butyl alcohol	0.007	0.007#	0.0	107	0.00	11.91
20	carbon disulfide	1.385	1.580	-14.1	120	0.00	8.92
21	methylene chloride	0.462	0.494	-6.9	112	0.00	9.25
22	methyl acetate	0.321	0.319	0.6	107	0.00	9.01
23	methyl tert butyl ether	1.695	1.745	-2.9	107	0.00	9.60
24	trans-1,2-dichloroethene	0.463	0.500	-8.0	112	0.00	9.67
25	di-isopropyl ether	1.373	1.429	-4.1	104	0.00	10.24
26	2-butanone	0.052	0.056	-7.7	114	0.00	11.03
27	1,1-dichloroethane	0.853	0.915	-7.3	109	0.00	10.28
28	chloroprene	0.729	0.754	-3.4	103	0.00	10.40
29	acrylonitrile	0.138	0.132	4.3	93	0.00	9.60
30	vinyl acetate	0.077	0.079	-2.6	100	0.00	10.25
31	ethyl tert-butyl ether	1.686	1.633	3.1	104	0.00	10.74
32	ethyl acetate	0.052	0.055	-5.8	104	0.00	11.03
33	2,2-dichloropropane	1.018	0.992	2.6	101	0.00	11.07
34	cis-1,2-dichloroethene	0.509	0.517	-1.6	105	0.00	11.07
35	propionitrile	0.055	0.049	10.9	88	0.00	11.12
36	methylacrylate	0.443	0.448	-1.1	101	0.00	11.13
37	bromochloromethane	0.273	0.289	-5.9	108	0.00	11.40

Initial Calibration Verification

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Job Number: J85904
 Account: EHTXF Entact Houston
 Project: Chevron, Perth Amboy

Sample: V1C2052-ICV2051
 Lab FileID: 1C49273.D

38	tetrahydrofuran	0.140	0.135	3.6	107	0.00	11.45
39	chloroform	1.016	1.037	-2.1	107	0.00	11.45
40 S	dibromofluoromethane (s)	0.536	0.531	0.9	105	0.00	11.66
41 S	1,2-dichloroethane-d4 (s)	0.790	0.754	4.6	102	0.00	12.11
42	freon 113	0.380	0.415	-9.2	111	-0.01	8.40
43	methacrylonitrile	0.255	0.281	-10.2	107	0.00	11.32
44	1,1,1-trichloroethane	1.073	1.112	-3.6	107	0.00	11.73
45	Cyclohexane	0.640	0.542	15.3	85	0.00	11.81
46 I	1,4-difluorobenzene	1.000	1.000	0.0	110	0.00	12.56
47	epichlorohydrin	0.035	0.035	0.0	104	0.00	13.85
48	n-butyl alcohol	0.009	0.009#	0.0	109	0.00	12.67
49	carbon tetrachloride	0.772	0.828	-7.3	107	0.00	11.94
50	1,1-dichloropropene	0.510	0.544	-6.7	109	0.00	11.91
51	hexane	0.334	0.334	0.0	102	0.00	9.98
52	benzene	1.303	1.379	-5.8	113	0.00	12.18
53	tert-amyl methyl ether	1.306	1.263	3.3	100	0.00	12.20
54	heptane	0.165	0.151	8.5	96	0.00	12.34
55	isopropyl acetate	0.627	0.659	-5.1	103	0.00	12.07
56	1,2-dichloroethane	0.695	0.733	-5.5	107	0.00	12.19
57	trichloroethene	0.382	0.415	-8.6	114	0.00	12.92
58	2-nitropropane	0.356	0.355	0.3	105	0.00	14.05
59	2-chloroethyl vinyl ether	0.211	0.213	-0.9	104	0.00	13.71
60	methyl methacrylate	0.330	0.332	-0.6	107	0.00	13.16
61	1,2-dichloropropane	0.323	0.346	-7.1	111	0.00	13.19
62	dibromomethane	0.266	0.267	-0.4	107	0.00	13.37
63	methylcyclohexane	0.491	0.509	-3.7	106	0.00	13.15
64	bromodichloromethane	0.610	0.628	-3.0	105	0.00	13.49
65	cis-1,3-dichloropropene	0.629	0.668	-6.2	112	0.00	13.96
66 S	toluene-d8 (s)	1.354	1.328	1.9	106	0.00	14.27
67	4-methyl-2-pentanone	0.125	0.133	-6.4	113	0.00	14.04
68	toluene	0.855	0.931	-8.9	112	0.00	14.34
69	3-methyl-1-butanol	0.015	0.016	-6.7	107	0.00	14.06
70	trans-1,3-dichloropropene	0.671	0.704	-4.9	107	0.00	14.54
71	ethyl methacrylate	0.420	0.472	-12.4	110	0.00	14.51
72	1,1,2-trichloroethane	0.264	0.278	-5.3	110	0.00	14.77
73	2-hexanone	0.132	0.138	-4.5	110	0.00	14.93
74 I	chlorobenzene-d5	1.000	1.000	0.0	110	0.00	15.88
75	tetrachloroethene	0.373	0.398	-6.7	110	0.00	14.97
76	1,3-dichloropropane	0.519	0.559	-7.7	111	0.00	14.97
77	butyl acetate	0.199	0.211	-6.0	106	0.00	15.00
78	dibromochloromethane	0.471	0.506	-7.4	107	0.00	15.27
79	1,2-dibromoethane	0.339	0.368	-8.6	114	0.00	15.43
80	n-butyl ether	0.013	0.014	-7.7	114	0.01	15.78
81	chlorobenzene	1.078	1.138	-5.6	111	0.00	15.91
82	1,1,1,2-tetrachloroethane	0.501	0.525	-4.8	112	0.00	15.97
83	ethylbenzene	1.811	1.930	-6.6	112	0.00	15.96
84	m,p-xylene	0.707	0.762	-7.8	113	0.00	16.07
85	o-xylene	0.710	0.764	-7.6	111	0.00	16.52
86	styrene	1.144	1.314	-14.9	116	0.00	16.53
87	bromoform	0.405	0.434	-7.2	108	0.00	16.83
88 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	18.38
89	isopropylbenzene	2.426	2.544	-4.9	107	0.00	16.88
90 S	4-bromofluorobenzene (s)	0.887	0.882	0.6	106	0.00	17.11
91	cyclohexanone	0.042	0.043	-2.4	107	0.00	14.06
92	bromobenzene	0.857	0.923	-7.7	113	0.00	17.33
93	1,1,2,2-tetrachloroethane	0.641	0.682	-6.4	114	0.00	17.20
94	trans-1,4-dichloro-2-bute	0.287	0.285	0.7	105	0.00	17.24

5.7

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Initial Calibration Verification

Page 3 of 3

Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample: VIC2052-ICV2051

Lab FileID: 1C49273.D

95	1,2,3-trichloropropane	0.233	0.217	6.9	98	0.00	17.29
96	n-propylbenzene	3.130	3.398	-8.6	113	0.00	17.31
97	2-chlorotoluene	2.380	2.501	-5.1	110	0.00	17.49
98	4-chlorotoluene	2.148	2.278	-6.1	110	0.00	17.59
99	1,3,5-trimethylbenzene	2.424	2.645	-9.1	113	0.00	17.46
100	tert-butylbenzene	1.732	1.882	-8.7	110	0.00	17.85
101	pentachloroethane	0.591	0.618	-4.6	107	0.00	17.96
102	1,2,4-trimethylbenzene	2.523	2.727	-8.1	112	0.00	17.90
103	sec-butylbenzene	2.700	2.930	-8.5	109	0.00	18.08
104	1,3-dichlorobenzene	1.555	1.606	-3.3	109	0.00	18.31
105	p-isopropyltoluene	2.477	2.594	-4.7	104	0.00	18.20
106	1,4-dichlorobenzene	1.628	1.674	-2.8	110	0.00	18.40
107	benzyl chloride	1.908	1.777	6.9	99	0.00	18.52
108	1,2-dichlorobenzene	1.447	1.520	-5.0	111	0.00	18.84
109	n-butylbenzene	2.006	2.128	-6.1	108	0.00	18.65
110	1,2-dibromo-3-chloropropa	0.157	0.159	-1.3	107	0.00	19.68
111	1,2,4-trichlorobenzene	0.859	0.898	-4.5	107	0.00	20.62
112	hexachlorobutadiene	0.464	0.512	-10.3	108	0.00	20.73
113	naphthalene	1.582	1.738	-9.9	111	0.00	20.97
114	1,2,3-trichlorobenzene	0.477	0.524	-9.9	107	0.00	21.26
115	hexachloroethane	0.539	0.542	-0.6	102	0.00	19.14

(#) = Out of Range
1C49264.D M1C2051.M

SPCC's out = 0 CCC's out = 0
Fri Mar 21 15:22:23 2008 MS1C

Continuing Calibration Summary

Page 1 of 3

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VIC2071-CC2051
Lab FileID: 1C49674.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\1C\VIC2071\1C49674.D Vial: 2
Acq On : 26 Mar 2008 9:59 am Operator: MaoH
Sample : cc2051-20 Inst : MS1C
Misc : MS62347,VIC2071,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Thu Mar 13 17:13:49 2008
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area#	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	130	0.01	9.20
2	tertiary butyl alcohol	1.088	1.119	-2.8	123	0.00	9.32
3	1,4-dioxane	0.070	0.051	27.1#	94	0.00	13.31
4 I	pentafluorobenzene	1.000	1.000	0.0	118	0.00	11.59
5	chlorodifluoromethane	0.622	0.676	-8.7	121	0.00	5.07
6	dichlorodifluoromethane	0.678	0.788	-16.2	131	0.00	5.04
7	chloromethane	0.582	0.684	-17.5	142	0.00	5.52
8	vinyl chloride	0.541	0.624	-15.3	138	0.00	5.85
9	bromomethane	0.373	0.395	-5.9	127	-0.01	6.65
10	chloroethane	0.275	0.290	-5.5	124	0.00	6.87
11	trichlorofluoromethane	0.992	1.055	-6.4	121	-0.01	7.46
12	ethyl ether	0.217	0.230	-6.0	125	0.00	7.93
----- True Calc. % Drift -----							
13	acrolein	200.000	920.422	-360.2#	628	0.00	8.25
----- AvgRF CCRF % Dev -----							
14	1,1-dichloroethene	0.411	0.389	5.4	111	0.00	8.44
15	acetone	0.150	0.148	1.3	130	0.02	8.53
16	allyl chloride	1.179	1.196	-1.4	106	0.00	9.04
17	acetonitrile	0.037	0.035	5.4	107	-0.02	9.01
18	iodomethane	0.879	0.837	4.8	110	0.00	8.77
19	iso-butyl alcohol	0.007	0.006#	14.3	98	0.00	11.92
20	carbon disulfide	1.385	1.257	9.2	110	0.00	8.92
21	methylene chloride	0.462	0.445	3.7	115	0.00	9.26
22	methyl acetate	0.321	0.338	-5.3	126	0.01	9.03
23	methyl tert butyl ether	1.695	1.612	4.9	114	0.00	9.60
24	trans-1,2-dichloroethene	0.463	0.435	6.0	113	0.00	9.67
25	di-isopropyl ether	1.373	1.449	-5.5	122	0.00	10.24
26	2-butanone	0.052	0.049	5.8	111	0.03	11.05
27	1,1-dichloroethane	0.853	0.829	2.8	110	0.00	10.28
28	chloroprene	0.729	0.775	-6.3	123	0.00	10.41
29	acrylonitrile	0.138	0.145	-5.1	120	0.01	9.62
30	vinyl acetate	0.077	0.075	2.6	133	0.02	10.27
31	ethyl tert-butyl ether	1.686	1.633	3.1	117	0.00	10.74
32	ethyl acetate	0.052	0.059	-13.5	131	0.00	11.04
33	2,2-dichloropropane	1.018	0.834	18.1	97	0.00	11.08
34	cis-1,2-dichloroethene	0.509	0.492	3.3	114	0.00	11.08
35	propionitrile	0.055	0.057	-3.6	119	0.00	11.13
36	methylacrylate	0.443	0.437	1.4	117	0.01	11.14
37	bromochloromethane	0.273	0.254	7.0	112	0.00	11.41

Continuing Calibration Summary

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VIC2071-CC2051
Lab FileID: 1C49674.D

Page 2 of 3

38	tetrahydrofuran	0.140	0.121	13.6	105	0.01	11.45
39	chloroform	1.016	0.943	7.2	110	0.00	11.45
40 S	dibromofluoromethane (s)	0.536	0.496	7.5	108	0.00	11.66
41 S	1,2-dichloroethane-d4 (s)	0.790	0.706	10.6	102	0.00	12.10
42	freon 113	0.380	0.452	-18.9	137	0.00	8.40
43	methacrylonitrile	0.255	0.262	-2.7	118	0.02	11.34
44	1,1,1-trichloroethane	1.073	0.993	7.5	105	0.00	11.73
45	Cyclohexane	0.640	0.602	5.9	106	0.00	11.81
46 I	1,4-difluorobenzene	1.000	1.000	0.0	113	0.00	12.55
47	epichlorohydrin	0.035	0.031	11.4	95	0.00	13.86
48	n-butyl alcohol	0.009	0.008#	11.1	97	0.02	12.68
49	carbon tetrachloride	0.772	0.733	5.1	104	0.00	11.94
50	1,1-dichloropropene	0.510	0.502	1.6	109	0.00	11.91
51	hexane	0.334	0.318	4.8	114	0.00	9.99
52	benzene	1.303	1.258	3.5	111	0.00	12.19
53	tert-amyl methyl ether	1.306	1.271	2.7	109	0.00	12.20
54	heptane	0.165	0.146	11.5	107	0.00	12.34
55	isopropyl acetate	0.627	0.683	-8.9	116	0.00	12.07
56	1,2-dichloroethane	0.695	0.642	7.6	102	0.00	12.19
57	trichloroethene	0.382	0.367	3.9	106	0.00	12.92
58	2-nitropropane	0.356	0.349	2.0	104	0.00	14.06
59	2-chloroethyl vinyl ether	0.211	0.172	18.5	90	0.00	13.71
60	methyl methacrylate	0.330	0.324	1.8	114	0.00	13.17
61	1,2-dichloropropene	0.323	0.320	0.9	111	0.00	13.19
62	dibromomethane	0.266	0.245	7.9	103	0.00	13.36
63	methylcyclohexane	0.491	0.485	1.2	111	0.00	13.15
64	bromodichloromethane	0.610	0.573	6.1	104	0.00	13.49
65	cis-1,3-dichloropropene	0.629	0.574	8.7	103	0.00	13.96
66 S	toluene-d8 (s)	1.354	1.260	6.9	105	0.00	14.27
67	4-methyl-2-pentanone	0.125	0.128	-2.4	112	0.00	14.04
68	toluene	0.855	0.821	4.0	107	0.00	14.35
69	3-methyl-1-butanol	0.015	0.014	6.7	101	0.01	14.06
70	trans-1,3-dichloropropene	0.671	0.601	10.4	99	0.00	14.54
71	ethyl methacrylate	0.420	0.427	-1.7	106	0.00	14.51
72	1,1,2-trichloroethane	0.264	0.243	8.0	105	0.00	14.77
73	2-hexanone	0.132	0.122	7.6	105	0.00	14.94
74 I	chlorobenzene-d5	1.000	1.000	0.0	102	0.00	15.88
75	tetrachloroethene	0.373	0.396	-6.2	106	0.00	14.97
76	1,3-dichloropropane	0.519	0.546	-5.2	104	0.00	14.97
77	butyl acetate	0.199	0.221	-11.1	107	0.00	15.00
78	dibromochloromethane	0.471	0.469	0.4	99	0.00	15.26
79	1,2-dibromoethane	0.339	0.335	1.2	99	0.00	15.43
80	n-butyl ether	0.013	0.013	0.0	122	0.02	15.78
81	chlorobenzene	1.078	1.073	0.5	101	0.00	15.91
82	1,1,1,2-tetrachloroethane	0.501	0.497	0.8	101	0.00	15.97
83	ethylbenzene	1.811	1.787	1.3	99	0.00	15.96
84	m,p-xylene	0.707	0.700	1.0	99	0.00	16.07
85	o-xylene	0.710	0.719	-1.3	100	0.00	16.52
86	styrene	1.144	1.107	3.2	96	0.00	16.53
87	bromoform	0.405	0.376	7.2	91	0.00	16.83
88 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	18.37
89	isopropylbenzene	2.426	2.512	-3.5	96	0.00	16.88
90 S	4-bromofluorobenzene (s)	0.887	0.872	1.7	92	0.00	17.11
91	cyclohexanone	0.042	0.047	-11.9	101	0.01	14.06
92	bromobenzene	0.857	0.846	1.3	92	0.00	17.34
93	1,1,2,2-tetrachloroethane	0.641	0.661	-3.1	95	0.00	17.20
94	trans-1,4-dichloro-2-bute	0.287	0.237	17.4	76	0.00	17.24

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Continuing Calibration Summary

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Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VIC2071-CC2051
Lab FileID: 1C49674.D

95	1,2,3-trichloropropane	0.233	0.242	-3.9	93	0.00	17.29
96	n-propylbenzene	3.130	3.057	2.3	90	0.00	17.31
97	2-chlorotoluene	2.380	2.317	2.6	90	0.00	17.49
98	4-chlorotoluene	2.148	2.068	3.7	88	0.00	17.59
99	1,3,5-trimethylbenzene	2.424	2.384	1.7	90	0.00	17.46
100	tert-butylbenzene	1.732	1.463	15.5	76	0.00	17.85
101	pentachloroethane	0.591	0.592	-0.2	90	0.00	17.96
102	1,2,4-trimethylbenzene	2.523	2.551	-1.1	91	0.00	17.90
103	sec-butylbenzene	2.700	2.724	-0.9	92	0.00	18.08
104	1,3-dichlorobenzene	1.555	1.486	4.4	87	0.00	18.31
105	p-isopropyltoluene	2.477	2.461	0.6	90	0.00	18.20
106	1,4-dichlorobenzene	1.628	1.552	4.7	88	0.00	18.40
107	benzyl chloride	1.908	1.197	37.3#	56	0.00	18.52
108	1,2-dichlorobenzene	1.447	1.461	-1.0	96	0.00	18.84
109	n-butylbenzene	2.006	1.897	5.4	89	0.00	18.65
110	1,2-dibromo-3-chloropropa	0.157	0.155	1.3	92	0.00	19.68
111	1,2,4-trichlorobenzene	0.859	0.589	31.4#	63	0.00	20.62
112	hexachlorobutadiene	0.464	0.478	-3.0	97	0.00	20.73
113	naphthalene	1.582	1.095	30.8#	62	0.00	20.97
114	1,2,3-trichlorobenzene	0.477	0.462	3.1	85	0.00	21.25
115	hexachloroethane	0.539	0.546	-1.3	93	0.00	19.14

(#) = Out of Range
1C49263.D M1C2051.M

SPCC's out = 0 CCC's out = 0
Thu Mar 27 11:50:05 2008 NJVOA03

5.7

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Continuing Calibration Summary

Page 1 of 3

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VIC2073-CC2051
Lab FileID: 1C49718.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\1C\VIC2073\1C49718.D Vial: 2
Acq On : 27 Mar 2008 9:14 am Operator: MaoH
Sample : cc2051-20 Inst : MS1C
Misc : MS62302,VIC2073,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Thu Mar 13 17:13:49 2008
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	90	0.00	9.19
2	tertiary butyl alcohol	1.088	1.105	-1.6	85	0.02	9.33
3	1,4-dioxane	0.070	0.061	12.9	78	0.00	13.31
4 I	pentafluorobenzene	1.000	1.000	0.0	96	0.00	11.59
5	chlorodifluoromethane	0.622	0.753	-21.1#	109	0.00	5.08
6	dichlorodifluoromethane	0.678	0.897	-32.3#	121	0.00	5.04
7	chloromethane	0.582	0.680	-16.8	115	-0.02	5.51
8	vinyl chloride	0.541	0.618	-14.2	111	0.00	5.85
9	bromomethane	0.373	0.388	-4.0	101	-0.01	6.65
10	chloroethane	0.275	0.297	-8.0	103	0.00	6.87
11	trichlorofluoromethane	0.992	1.136	-14.5	106	0.00	7.47
12	ethyl ether	0.217	0.216	0.5	95	0.00	7.93
----- True Calc. % Drift -----							
13	acrolein	200.000	636.705	-218.4#	350	0.00	8.25
----- AvgRF CCRF % Dev -----							
14	1,1-dichloroethene	0.411	0.389	5.4	90	0.00	8.44
15	acetone	0.150	0.140	6.7	100	0.02	8.53
16	allyl chloride	1.179	1.139	3.4	82	0.00	9.04
17	acetonitrile	0.037	0.034	8.1	84	0.00	9.03
18	iodomethane	0.879	0.842	4.2	90	0.00	8.77
19	iso-butyl alcohol	0.007	0.006#	14.3	78	0.00	11.92
20	carbon disulfide	1.385	1.250	9.7	89	0.00	8.92
21	methylene chloride	0.462	0.437	5.4	92	0.00	9.25
22	methyl acetate	0.321	0.306	4.7	93	0.01	9.03
23	methyl tert butyl ether	1.695	1.582	6.7	91	0.00	9.60
24	trans-1,2-dichloroethene	0.463	0.428	7.6	90	0.00	9.67
25	di-isopropyl ether	1.373	1.403	-2.2	96	0.00	10.24
26	2-butanone	0.052	0.044	15.4	82	0.02	11.04
27	1,1-dichloroethane	0.853	0.856	-0.4	92	0.00	10.28
28	chloroprene	0.729	0.828	-13.6	106	0.00	10.40
29	acrylonitrile	0.138	0.125	9.4	84	0.01	9.62
30	vinyl acetate	0.077	0.059	23.4#	85	0.02	10.27
31	ethyl tert-butyl ether	1.686	1.627	3.5	95	0.00	10.74
32	ethyl acetate	0.052	0.044	15.4	79	0.02	11.05
33	2,2-dichloropropane	1.018	0.738	27.5#	70	0.00	11.08
34	cis-1,2-dichloroethane	0.509	0.488	4.1	92	0.00	11.07
35	propionitrile	0.055	0.050	9.1	85	0.01	11.13
36	methylacrylate	0.443	0.361	18.5	78	0.01	11.14
37	bromochloromethane	0.273	0.250	8.4	89	0.00	11.41

Continuing Calibration Summary

Page 2 of 3

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VIC2073-CC2051
Lab FileID: 1C49718.D

38	tetrahydrofuran	0.140	0.105	25.0#	74	0.02	11.46
39	chloroform	1.016	0.998	1.8	95	0.00	11.46
40 S	dibromofluoromethane (s)	0.536	0.504	6.0	89	0.00	11.66
41 S	1,2-dichloroethane-d4 (s)	0.790	0.767	2.9	90	0.00	12.10
42	freon 113	0.380	0.460	-21.1#	113	-0.01	8.40
43	methacrylonitrile	0.255	0.232	9.0	85	0.02	11.34
44	1,1,1-trichloroethane	1.073	1.061	1.1	91	0.00	11.72
45	Cyclohexane	0.640	0.603	5.8	86	0.00	11.81
46 I	1,4-difluorobenzene	1.000	1.000	0.0	92	0.00	12.55
47	epichlorohydrin	0.035	0.025	28.6#	63	0.00	13.86
48	n-butyl alcohol	0.009	0.006#	33.3#	63	0.02	12.68
49	carbon tetrachloride	0.772	0.815	-5.6	94	0.00	11.94
50	1,1-dichloropropene	0.510	0.505	1.0	89	0.00	11.91
51	hexane	0.334	0.286	14.4	83	0.00	9.99
52	benzene	1.303	1.261	3.2	90	0.00	12.19
53	tert-amyl methyl ether	1.306	1.267	3.0	88	0.00	12.20
54	heptane	0.165	0.131	20.6#	78	0.00	12.34
55	isopropyl acetate	0.627	0.622	0.8	86	0.00	12.07
56	1,2-dichloroethane	0.695	0.718	-3.3	93	0.00	12.20
57	trichloroethene	0.382	0.382	0.0	90	0.00	12.92
58	2-nitropropane	0.356	0.281	21.1#	68	0.01	14.06
59	2-chloroethyl vinyl ether	0.211	0.172	18.5	73	0.00	13.71
60	methyl methacrylate	0.330	0.294	10.9	84	0.00	13.17
61	1,2-dichloropropane	0.323	0.316	2.2	89	0.00	13.19
62	dibromomethane	0.266	0.249	6.4	85	0.00	13.37
63	methylcyclohexane	0.491	0.492	-0.2	92	0.00	13.15
64	bromodichloromethane	0.610	0.600	1.6	89	0.00	13.48
65	cis-1,3-dichloropropene	0.629	0.548	12.9	80	0.00	13.96
66 S	toluene-d8 (s)	1.354	1.271	6.1	86	0.00	14.27
67	4-methyl-2-pentanone	0.125	0.108	13.6	77	0.00	14.04
68	toluene	0.855	0.834	2.5	89	0.00	14.34
69	3-methyl-1-butanol	0.015	0.011	26.7#	63	0.02	14.07
70	trans-1,3-dichloropropene	0.671	0.597	11.0	80	0.00	14.54
71	ethyl methacrylate	0.420	0.397	5.5	80	0.00	14.51
72	1,1,2-trichloroethane	0.264	0.235	11.0	83	0.00	14.77
73	2-hexanone	0.132	0.099	25.0#	70	0.01	14.95
74 I	chlorobenzene-d5	1.000	1.000	0.0	84	0.00	15.88
75	tetrachloroethene	0.373	0.406	-8.8	89	0.00	14.97
76	1,3-dichloropropane	0.519	0.539	-3.9	84	0.00	14.97
77	butyl acetate	0.199	0.180	9.5	72	0.00	15.00
78	dibromochloromethane	0.471	0.475	-0.8	83	0.00	15.26
79	1,2-dibromoethane	0.339	0.327	3.5	79	0.00	15.43
80	n-butyl ether	0.013	0.011	15.4	86	0.02	15.78
81	chlorobenzene	1.078	1.074	0.4	83	0.00	15.91
82	1,1,1,2-tetrachloroethane	0.501	0.508	-1.4	85	0.00	15.97
83	ethylbenzene	1.811	1.807	0.2	83	0.00	15.96
84	m,p-xylene	0.707	0.705	0.3	82	0.00	16.07
85	o-xylene	0.710	0.703	1.0	80	0.00	16.52
86	styrene	1.144	1.083	5.3	77	0.00	16.53
87	bromoform	0.405	0.367	9.4	73	0.00	16.83
88 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	77	0.00	18.37
89	isopropylbenzene	2.426	2.469	-1.8	80	0.00	16.87
90 S	4-bromofluorobenzene (s)	0.887	0.877	1.1	79	0.00	17.11
91	cyclohexanone	0.042	0.035	16.7	63	0.02	14.07
92	bromobenzene	0.857	0.841	1.9	78	0.00	17.34
93	1,1,2,2-tetrachloroethane	0.641	0.574	10.5	70	0.00	17.20
94	trans-1,4-dichloro-2-bute	0.287	0.201	30.0#	55	0.00	17.24

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Continuing Calibration Summary

Page 3 of 3

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: V1C2073-CC2051
Lab FileID: 1C49718.D

95	1,2,3-trichloropropane	0.233	0.220	5.6	72	0.00	17.29
96	n-propylbenzene	3.130	3.006	4.0	75	0.00	17.31
97	2-chlorotoluene	2.380	2.334	1.9	77	0.00	17.49
98	4-chlorotoluene	2.148	2.064	3.9	74	0.00	17.59
99	1,3,5-trimethylbenzene	2.424	2.358	2.7	75	0.00	17.46
100	tert-butylbenzene	1.732	1.804	-4.2	79	0.00	17.85
101	pentachloroethane	0.591	0.582	1.5	75	0.00	17.96
102	1,2,4-trimethylbenzene	2.523	2.473	2.0	74	0.00	17.90
103	sec-butylbenzene	2.700	2.669	1.1	76	0.00	18.08
104	1,3-dichlorobenzene	1.555	1.458	6.2	72	0.00	18.31
105	p-isopropyltoluene	2.477	2.394	3.4	74	0.00	18.19
106	1,4-dichlorobenzene	1.628	1.502	7.7	72	0.00	18.40
107	benzyl chloride	1.908	0.767	59.8#	30#	0.00	18.52
108	1,2-dichlorobenzene	1.447	1.370	5.3	76	0.00	18.84
109	n-butylbenzene	2.006	1.818	9.4	72	0.00	18.65
110	1,2-dibromo-3-chloropropa	0.157	0.128	18.5	64	0.00	19.68
111	1,2,4-trichlorobenzene	0.859	0.539	37.3#	49#	0.00	20.62
112	hexachlorobutadiene	0.464	0.488	-5.2	84	0.00	20.73
113	naphthalene	1.582	0.842	46.8#	40#	0.00	20.97
114	1,2,3-trichlorobenzene	0.477	0.408	14.5	63	0.00	21.25
115	hexachloroethane	0.539	0.554	-2.8	80	0.00	19.14

(#) = Out of Range
1C49263.D M1C2051.M

SPCC's out = 0 CCC's out = 0
Mon Mar 31 16:06:40 2008 NJVOA03

Initial Calibration Summary

Page 1 of 3

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VG5266-ICC5266
Lab FileID: G108665.D

Response Factor Report MSG

Method : C:\HPCHEM\1\METHODS\MG5266.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Wed Mar 26 14:40:35 2008
Response via : Initial Calibration

Calibration Files

1 =G108661.D 5 =G108662.D 10 =G108663.D 50 =G108665.D
100 =G108666.D 200 =G108667.D 20 =G108664.D =

Compound	1	5	10	50	100	200	20	Avg %RSD
----------	---	---	----	----	-----	-----	----	----------

1) I Tert Butyl Alcohol-d9 -----ISTD-----
2) tertiary but 1.028 1.121 1.014 1.035 1.049 1.163 1.068 5.59
3) acetonitrile 0.546 0.540 0.366 0.363 0.421 0.330 0.428 22.01

----- Linear regression ----- Coefficient = 0.9934

Response Ratio = -0.01991 + 0.41428 *A

4) 1,4-dioxane 0.061 0.083 0.090 0.099 0.105 0.084 0.087 17.59

----- Linear regression ----- Coefficient = 0.9989

Response Ratio = -0.02260 + 0.10649 *A

5) I pentafluorobenzene -----ISTD-----

6) chlorodifluo	0.470	0.506	0.436	0.494	0.458	0.485	0.475	5.33
7) dichlorodifl	0.508	0.517	0.605	0.644	0.593	0.675	0.591	11.35
8) chloromethan	0.451	0.403	0.406	0.399	0.339	0.451	0.408	10.14
9) vinyl chlori	0.343	0.333	0.326	0.346	0.357	0.291	0.396	9.33
10) bromomethane	0.363	0.342	0.357	0.370	0.325	0.401	0.360	7.19
11) chloroethane	0.259	0.243	0.261	0.270	0.232	0.289	0.259	7.77
12) trichloroflu	0.569	0.559	0.666	0.710	0.642	0.750	0.649	11.66
13) ethyl ether	0.155	0.154	0.177	0.192	0.167	0.176	0.170	8.58
14) acrolein	0.037	0.038	0.035	0.038	0.025	0.040	0.035	14.80
15) freon 113	0.501	0.679	0.657	0.675	0.609	0.659	0.630	10.81
16) acetone		0.035	0.030	0.029	0.024	0.031	0.030	13.31
17) 1,1-dichloro	0.302	0.313	0.328	0.357	0.319	0.335	0.326	5.87
18) iodomethane	0.709	0.711	0.752	0.819	0.733	0.762	0.748	5.49
19) methyl aceta	0.168	0.200	0.206	0.222	0.181	0.206	0.197	9.88
20) allyl chlori	0.445	0.451	0.504	0.539	0.475	0.514	0.488	7.64
21) methylene ch	0.335	0.323	0.336	0.364	0.323	0.346	0.338	4.60
22) carbon disul	0.851	0.860	0.879	0.948	0.822	0.904	0.877	5.04
23) acrylonitril	0.044	0.053	0.060	0.069	0.056	0.057	0.057	14.51
24) methyl tert	1.000	0.938	0.890	0.928	1.018	0.869	0.945	5.74
25) trans-1,2-di	0.348	0.350	0.362	0.385	0.423	0.377	0.388	6.97
26) hexane	0.436	0.549	0.469	0.486	0.436	0.458	0.473	8.90
27) di-isopropyl	1.968	1.667	1.745	1.606	1.663	1.497	1.652	8.63
28) 1,1-dichloro	0.822	0.736	0.719	0.727	0.777	0.685	0.746	5.91
29) vinyl acetat		0.064	0.080	0.095	0.082	0.070	0.078	15.22

----- Linear regression ----- Coefficient = 0.9917

Response Ratio = -0.00088 + 0.08487 *A

30) chloroprene	0.492	0.566	0.541	0.578	0.531	0.569	0.546	5.89
31) ethyl tert-b	1.445	1.346	1.424	1.360	1.449	1.310	1.394	3.81
32) 2-butanone	0.167	0.140	0.119	0.127	0.110	0.134	0.133	14.88
33) propionitril	0.016	0.018	0.023	0.028	0.023	0.023	0.022	19.51

----- Quadratic regression -----

Coefficient = 0.9960

Response Ratio = -0.03229 + 0.03267 *A + -0.00021 *A^2

Initial Calibration Summary

Page 2 of 3

Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample: VG5266-ICC5266

Lab FileID: G108665.D

34)	2,2-dichloro	0.693	0.666	0.638	0.692	0.616	0.679	0.664	4.69
35)	ethyl acetat	0.679	0.672	0.681	0.739	0.654	0.696	0.687	4.23
36)	cis-1,2-dich	0.393	0.397	0.396	0.415	0.461	0.402	0.417	5.81
37)	methacryloni	0.187	0.228	0.269	0.302	0.249	0.249	0.247	15.71
----- Quadratic regression -----								Coefficient =	0.9977
Response Ratio = -0.02960 + 0.35247 *A + -0.02367 *A^2									
38)	methyl acryl	0.261	0.266	0.258	0.292	0.241	0.280	0.266	6.72
39)	iso-butyl al							0.000#	-1.00
40)	chloroform	0.823	0.786	0.783	0.855	0.768	0.805	0.804	3.95
41)	bromochlorom	0.210	0.204	0.228	0.260	0.232	0.224	0.226	8.57
42)	tetrahydrofu	0.144	0.114	0.078	0.085	0.065	0.082	0.095	30.54
----- Quadratic regression -----								Coefficient =	0.9949
Response Ratio = 0.00020 + 0.09638 *A + -0.00769 *A^2									
43)	1,1,1-trichl	0.716	0.643	0.641	0.649	0.712	0.640	0.666	5.05
44)	dibromofluor	0.837	0.683	0.588	0.614		0.640	0.673	14.65
45)	1,2-dichloro	0.572	0.466	0.398	0.421		0.443	0.460	14.69
46)	I 1,4-difluorobenzene	-----ISTD-----							
47)	n-butyl alco	0.021	0.022	0.022	0.023	0.019	0.023	0.022	6.21
48)	cyclohexane	0.347	0.393	0.378	0.406	0.347	0.400	0.378	6.87
49)	1,1-dichloro	0.549	0.465	0.488	0.489	0.517	0.452	0.509	6.60
50)	isopropyl ac	0.132	0.161	0.120	0.128	0.104	0.135	0.130	14.29
51)	carbon tetra	0.452	0.467	0.464	0.508	0.440	0.484	0.469	5.19
52)	tert-amyl me	1.071	1.023	1.050	0.914	0.938	0.781	0.948	10.34
53)	heptane	0.343	0.415	0.385	0.394	0.347	0.391	0.379	7.47
54)	1,2-dichloro	0.367	0.392	0.374	0.382	0.402	0.343	0.394	5.30
55)	benzene	1.280	0.963	0.879	0.829	0.865	0.730	0.910	18.81
----- Linear regression -----								Coefficient =	0.9954
Response Ratio = 0.00918 + 0.83129 *A									
56)	trichloroeth	0.382	0.388	0.384	0.400	0.434	0.378	0.406	4.87
57)	methylcycloh	0.379	0.497	0.468	0.470	0.418	0.472	0.450	9.64
58)	1,2-dichloro	0.471	0.385	0.361	0.343	0.364	0.318	0.373	12.90
59)	propyl aceta	0.450	0.464	0.458	0.500	0.396	0.453	0.453	7.36
60)	methyl metha	0.226	0.220	0.204	0.229	0.183	0.228	0.215	8.47
61)	bromodichlor	0.702	0.669	0.645	0.657	0.702	0.612	0.676	4.83
62)	dibromometha	0.282	0.275	0.292	0.319	0.272	0.300	0.290	6.14
63)	2-nitropropa	0.825	0.857	0.920	0.999	0.834	0.888	0.887	7.34
64)	3-methyl-1-b	0.014	0.018	0.012	0.015		0.013	0.015	14.94
65)	2-chloroethy	0.129	0.154	0.168	0.182	0.154	0.159	0.158	11.08
66)	4-methyl-2-p	0.123	0.128	0.136	0.147	0.113	0.141	0.131	9.41
67)	epichlorohyd	0.083	0.079	0.071	0.078	0.066	0.071	0.075	8.26
68)	cis-1,3-dich	0.514	0.520	0.556	0.607	0.533	0.554	0.548	6.18
69)	toluene	0.679	0.585	0.579	0.596	0.634	0.553	0.618	6.88
70)	trans-1,3-di	0.374	0.421	0.419	0.459	0.509	0.442	0.458	9.54
71)	ethyl methac	0.451	0.439	0.438	0.486	0.397	0.450	0.444	6.44
72)	1,1,2-trichl	0.251	0.279	0.270	0.263	0.281	0.238	0.274	5.99
73)	2-hexanone	0.285	0.265	0.222	0.245	0.190	0.245	0.242	13.80
74)	toluene-d8 (1.207	1.028	0.891	0.916	0.822	1.000	0.977	13.79
75)	I chlorobenzene-d5	-----ISTD-----							
76)	1,3-dichloro	0.614	0.631	0.585	0.668	0.729	0.645	0.675	7.18
77)	butyl acetat	0.303	0.307	0.326	0.344	0.289	0.329	0.316	6.37
78)	tetrachloroe	0.759	0.629	0.605	0.647	0.685	0.604	0.679	8.32
79)	dibromochlor	0.580	0.544	0.617	0.687	0.621	0.630	0.613	7.87
80)	1,2-dibromoe	0.437	0.438	0.416	0.503	0.565	0.502	0.494	10.81
81)	chlorobenzen	0.976	0.900	0.821	0.950	1.014	0.928	0.957	6.64
82)	1,1,1,2-tetr	0.485	0.458	0.519	0.549	0.493	0.521	0.504	6.37

Initial Calibration Summary

Page 3 of 3

Job Number: J85904
 Account: EHTXF Entact Houston
 Project: Chevron, Perth Amboy

Sample: VG5266-ICC5266
 Lab FileID: G108665.D

83)	ethylbenzene	1.590	1.259	1.220	1.324	1.373	1.228	1.388	1.340	9.62
84)	m,p-xylene	0.607	0.560	0.527	0.557	0.578	0.518	0.603	0.564	6.07
85)	o-xylene	0.571	0.548	0.518	0.581	0.619	0.572	0.599	0.572	5.75
86)	styrene		0.775	0.733	0.891	0.955	0.880	0.879	0.852	9.62
87)	bromoform		0.373	0.359	0.436	0.486	0.424	0.423	0.417	10.96
88)	cyclohexanon		0.082	0.075	0.070	0.071	0.055	0.084	0.073	14.38
89)	I 1,4-dichlorobenzene-d	-----ISTD-----								
90)	4-bromofluor	1.579	1.313	1.112	1.120		1.307		1.286	14.80
91)	isopropylben	2.904	2.579	2.470	2.374	2.466	2.254	2.583	2.518	8.15
92)	1,1,2,2-tetr	1.181	1.086	0.997	0.990	1.061	0.922	1.061	1.043	7.96
93)	1,2,3-trichl		0.295	0.285	0.286	0.310	0.269	0.303	0.291	4.99
94)	trans-1,4-di		0.173	0.165	0.193	0.226	0.206	0.185	0.191	11.70
95)	n-propylbenz	3.874	3.268	3.140	2.984	3.089	2.838	3.315	3.215	10.35
96)	bromobenzene	0.832	0.831	0.810	0.795	0.835	0.771	0.847	0.817	3.26
97)	1,3,5-trimet	2.659	2.402	2.311	2.103	2.179	2.014	2.309	2.283	9.34
98)	2-chlorotolu		1.768	1.682	1.613	1.674	1.493	1.922	1.692	8.57
99)	4-chlorotolu		2.461	2.456	2.386	2.630	2.340	1.922	2.366	10.08
100)	tert-butylbe		1.793	1.713	1.659	1.715	1.593	1.790	1.711	4.49
101)	1,2,4-trimet	2.799	2.364	2.247	2.093	2.137	1.931	2.274	2.264	12.14
102)	pentachloroe		0.694	0.659	0.652	0.672	0.634	0.683	0.666	3.28
103)	sec-butylben	3.772	3.056	3.012	2.932	3.026	2.844	3.124	3.109	9.83
104)	p-isopropylt	3.116	2.747	2.672	2.504	2.593	2.427	2.626	2.669	8.37
105)	1,3-dichloro	1.579	1.334	1.281	1.303	1.386	1.299	1.343	1.361	7.53
106)	1,4-dichloro	1.579	1.548	1.498	1.375	1.467	1.382	1.440	1.470	5.28
107)	benzyl chlor		0.882	0.997	1.036	1.144	1.074	1.015	1.025	8.52
108)	n-butylbenze	2.193	2.266	2.196	2.472	2.577	2.422	2.418	2.363	6.25
109)	1,2-dichloro	1.325	1.373	1.396	1.308	1.355	1.281	1.349	1.341	2.93
110)	hexachloroet		0.622	0.635	0.696	0.740	0.719	0.690	0.684	6.79
111)	1,2-dibromo-		0.222	0.213	0.239	0.247	0.212	0.229	0.227	6.24
112)	nitrobenzene		0.111	0.105	0.069	0.076		0.139	0.100	28.29
----- Quadratic regression -----										
Response Ratio = 0.01184 + 0.06310 *A + 0.00319 *A^2										
Coefficient = 0.9621										
113)	1,2,4-trichl	0.848	0.988	0.986	1.062	1.147	1.051	1.079	1.023	9.25
114)	hexachlorobu	0.762	0.806	0.790	0.803	0.809	0.756	0.827	0.793	3.27
115)	naphthalene		1.326	1.298	1.437	1.604	1.397	1.488	1.425	7.87
116)	1,2,3-trichl	0.785	0.985	0.959	0.903	0.974	0.882	0.924	0.916	7.54
117)	Ethylenimine								0.000#	-1.00
118)	Bis(chlorome								0.000#	-1.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

MG5266.M

Wed Mar 26 14:42:13 2008 RPT1

Initial Calibration Verification

Page 1 of 3

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VG5266-ICV5266
Lab FileID: G108671.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VG5267\g108671.d Vial: 12
Acq On : 25 Mar 2008 6:55 pm Operator: SCOTTM
Sample : ICV5266-50 Inst : MSG
Misc : MS62268, VG5266,,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\mg5266.m (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Wed Mar 26 17:10:43 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	106	-0.02	5.83
2 M	tertiary butyl alcohol	1.068	1.044	2.2	109	0.00	5.99
	----- True Calc. % Drift -----						
3 M	acetonitrile	500.000	425.173	15.0	96	0.00	9.30
4 M	1,4-dioxane	1250.000	1215.603	2.8	111	0.00	13.16
	----- AvgRF CCRF % Dev -----						
5 I	pentafluorobenzene	1.000	1.000	0.0	100	-0.02	9.59
6 M	chlorodifluoromethane	0.475	0.467	1.7	107	0.05	3.13
7 M	dichlorodifluoromethane	0.591	0.563	4.7	93	-0.02	3.15
8 M	chloromethane	0.408	0.412	-1.0	102	-0.02	3.46
9 M	vinyl chloride	0.342	0.346	-1.2	100	-0.02	3.67
10 M	bromomethane	0.360	0.364	-1.1	102	0.00	4.32
11 M	chloroethane	0.259	0.267	-3.1	102	0.00	4.43
12 M	trichlorofluoromethane	0.649	0.632	2.6	95	0.00	4.86
13 M	ethyl ether	0.170	0.185	-8.8	105	0.00	5.29
14 M	acrolein	0.035	0.038	-8.6	109	0.00	5.50
15 M	freon 113	0.630	0.640	-1.6	98	0.00	5.59
16 M	acetone	0.030	0.039	-30.0#	131	0.00	5.61
17 M	1,1-dichloroethene	0.326	0.335	-2.8	102	0.00	5.83
18 M	iodomethane	0.748	0.768	-2.7	102	0.00	6.37
19 M	methyl acetate	0.197	0.224	-13.7	109	0.00	6.41
20 M	allyl chloride	0.488	0.522	-7.0	104	0.00	6.47
21 M	methylene chloride	0.338	0.355	-5.0	106	-0.02	6.67
22 M	carbon disulfide	0.877	0.896	-2.2	102	0.00	6.72
23 M	acrylonitrile	0.057	0.064	-12.3	107	0.00	6.90
24 M	methyl tert butyl ether	0.941	0.970	-3.1	105	0.00	6.97
25 M	trans-1,2-dichloroethene	0.376	0.402	-6.9	105	0.00	7.22
26 M	hexane	0.473	0.460	2.7	98	0.00	7.34
27 M	di-isopropyl ether	1.685	1.643	2.5	102	0.00	7.81
28 M	1,1-dichloroethane	0.745	0.764	-2.6	105	-0.02	7.98
	----- True Calc. % Drift -----						
29 M	vinyl acetate	50.000	51.423	-2.8	108	0.00	8.00
	----- AvgRF CCRF % Dev -----						
30 M	chloroprene	0.546	0.538	1.5	100	0.00	8.17
31 M	ethyl tert-butyl ether	1.390	1.406	-1.2	103	0.00	8.57
32 M	2-butanone	0.133	0.148	-11.3	125	0.00	8.76

Initial Calibration Verification

Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample: VG5266-ICV5266
Lab FileID: G108671.D

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		True	Calc.	% Drift			
33 M	propionitrile	500.000	477.454	4.5	111	0.00	8.90
		AvgRF	CCRF	% Dev			
34 M	2,2-dichloropropane	0.664	0.648	2.4	102	0.00	9.07
35 M	ethyl acetate	0.687	0.716	-4.2	105	-0.02	9.12
36 M	cis-1,2-dichloroethene	0.412	0.444	-7.8	107	0.00	9.13
		True	Calc.	% Drift			
37 M	methacrylonitrile	50.000	47.969	4.1	107	0.00	9.30
		AvgRF	CCRF	% Dev			
38 M	methyl acrylate	0.266	0.284	-6.8	111	0.00	9.33
39 M	iso-butyl alcohol			-NA			
40 M	chloroform	0.804	0.810	-0.7	104	0.00	9.43
41 M	bromochloromethane	0.226	0.243	-7.5	107	0.00	9.75
		True	Calc.	% Drift			
42 M	tetrahydrofuran	50.000	48.099	3.8	110	-0.02	9.82
		AvgRF	CCRF	% Dev			
43 M	1,1,1-trichloroethane	0.666	0.657	1.4	101	0.00	10.23
44 S	dibromofluoromethane (s)	0.673	0.619	8.0	105	-0.02	9.85
45 S	1,2-dichloroethane-d4 (s)	0.460	0.403	12.4	101	0.00	10.82
46 I	1,4-difluorobenzene	1.000	1.000	0.0	101	0.00	11.59
47 M	n-butyl alcohol	0.022	0.022	0.0	103	0.00	10.25
48 M	cyclohexane	0.378	0.393	-4.0	105	0.00	10.27
49 M	1,1-dichloropropene	0.495	0.500	-1.0	103	0.00	10.52
50 M	isopropyl acetate	0.130	0.133	-2.3	112	0.00	10.67
51 M	carbon tetrachloride	0.469	0.461	1.7	100	0.00	10.72
52 M	tert-amyl methyl ether	0.961	0.958	0.3	105	-0.02	10.76
53 M	heptane	0.379	0.373	1.6	97	0.00	10.85
54 M	1,2-dichloroethane	0.379	0.395	-4.2	104	0.00	11.00
		True	Calc.	% Drift			
55 M	benzene	50.000	50.557	-1.1	103	-0.02	11.04
		AvgRF	CCRF	% Dev			
56 M	trichloroethene	0.396	0.409	-3.3	103	0.00	12.27
57 M	methylcyclohexane	0.450	0.458	-1.8	98	-0.02	12.41
58 M	1,2-dichloropropane	0.374	0.359	4.0	105	0.00	12.62
59 M	propyl acetate	0.453	0.475	-4.9	104	0.00	12.71
60 M	methyl methacrylate	0.215	0.209	2.8	103	0.00	12.75
61 M	bromodichloromethane	0.666	0.671	-0.8	103	-0.02	13.10
62 M	dibromomethane	0.290	0.305	-5.2	105	0.00	13.21
63 M	2-nitropropane	0.887	0.947	-6.8	104	0.00	13.75
64 M	3-methyl-1-butanol	0.015	0.014	6.7	110	0.00	13.33
65 M	2-chloroethyl vinyl ether	0.158	0.172	-8.9	103	0.00	13.74
66 M	4-methyl-2-pentanone	0.131	0.144	-9.9	106	0.00	13.82
67 M	epichlorohydrin	0.075	0.075	0.0	106	0.00	13.76
68 M	cis-1,3-dichloropropene	0.548	0.578	-5.5	105	0.00	14.24
69 M	toluene	0.606	0.617	-1.8	104	0.00	14.93
70 M	trans-1,3-dichloropropene	0.440	0.486	-10.5	106	0.00	15.29
71 M	ethyl methacrylate	0.444	0.456	-2.7	105	0.00	15.29
72 M	1,1,2-trichloroethane	0.265	0.277	-4.5	106	0.00	15.61
73 M	2-hexanone	0.242	0.254	-5.0	115	0.00	15.64
74 S	toluene-d8 (s)	0.977	0.959	1.8	108	0.00	14.76
75 I	chlorobenzene-d5	1.000	1.000	0.0	102	-0.02	17.78

5.7

5

Initial Calibration Verification

Page 3 of 3

Job Number: J85904
 Account: EHTXF Entact Houston
 Project: Chevron, Perth Amboy

Sample: VG5266-ICV5266
 Lab FileID: G108671.D

76 M	1,3-dichloropropane	0.650	0.701	-7.8	107	-0.02	16.10
77 M	butyl acetate	0.316	0.333	-5.4	105	0.00	16.13
78 M	tetrachloroethene	0.658	0.652	0.9	103	0.00	16.26
79 M	dibromochloromethane	0.613	0.638	-4.1	106	0.00	16.65
80 M	1,2-dibromoethane	0.479	0.526	-9.8	107	0.00	17.04
81 M	chlorobenzene	0.935	0.987	-5.6	106	-0.02	17.87
82 M	1,1,1,2-tetrachloroethane	0.504	0.525	-4.2	103	-0.02	17.94
83 M	ethylbenzene	1.340	1.378	-2.8	106	0.00	17.97
84 M	m,p-xylene	0.564	0.571	-1.2	105	-0.02	18.12
85 M	o-xylene	0.572	0.599	-4.7	105	0.00	18.95
86 M	styrene	0.852	0.913	-7.2	105	-0.02	19.00
87 M	bromoform	0.417	0.442	-6.0	103	0.00	19.64
88 M	cyclohexanone	0.073	0.084	-15.1	123	0.00	19.71
89 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	22.23
90 S	4-bromofluorobenzene (s)	1.286	1.144	11.0	101	-0.02	20.08
91 M	isopropylbenzene	2.518	2.513	0.2	104	0.00	19.62
92 M	1,1,2,2-tetrachloroethane	1.043	1.084	-3.9	107	-0.02	19.92
93 M	1,2,3-trichloropropane	0.291	0.314	-7.9	108	-0.02	20.19
94 M	trans-1,4-dichloro-2-bute	0.191	0.212	-11.0	107	-0.02	20.32
95 M	n-propylbenzene	3.215	3.152	2.0	103	0.00	20.36
96 M	bromobenzene	0.817	0.837	-2.4	103	0.00	20.43
97 M	1,3,5-trimethylbenzene	2.283	2.211	3.2	103	-0.02	20.65
98 M	2-chlorotoluene	1.692	1.889	-11.6	115	-0.08	20.68
99 M	4-chlorotoluene	2.366	2.286	3.4	94	0.00	20.76
100 M	tert-butylbenzene	1.711	1.705	0.4	101	0.00	21.30
101 M	1,2,4-trimethylbenzene	2.264	2.186	3.4	102	0.00	21.37
102 M	pentachloroethane	0.666	0.667	-0.2	100	0.00	21.42
103 M	sec-butylbenzene	3.109	3.049	1.9	102	-0.02	21.68
104 M	p-isopropyltoluene	2.669	2.597	2.7	101	0.00	21.93
105 M	1,3-dichlorobenzene	1.361	1.375	-1.0	103	0.00	22.10
106 M	1,4-dichlorobenzene	1.470	1.448	1.5	103	0.00	22.29
107 M	benzyl chloride	1.025	1.092	-6.5	103	0.00	22.49
108 M	n-butylbenzene	2.363	2.533	-7.2	100	0.00	22.66
109 M	1,2-dichlorobenzene	1.341	1.356	-1.1	101	0.02	22.96
110 M	hexachloroethane	0.684	0.704	-2.9	99	0.02	23.60
111 M	1,2-dibromo-3-chloropropa	0.227	0.251	-10.6	102	0.02	24.33
		True	Calc.	% Drift			
112 M	nitrobenzene	50.000	53.243	-6.5	117	0.00	24.33
		AvgRF	CCRF	% Dev			
113 M	1,2,4-trichlorobenzene	1.023	1.092	-6.7	101	0.02	25.72
114 M	hexachlorobutadiene	0.793	0.790	0.4	96	0.00	25.92
115 M	naphthalene	1.425	1.523	-6.9	104	0.02	26.09
116 M	1,2,3-trichlorobenzene	0.916	0.930	-1.5	101	0.00	26.42
117 M	Ethylenimine	-----NA-----					
118 M	Bis(chloromethyl)ether	-----NA-----					

(#) = Out of Range
 G108665.D mg5266.m

SPCC's out = 0 CCC's out = 0
 Mon Apr 07 15:51:37 2008 NJVMVOA05

Continuing Calibration Summary

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VG5270-CC5266
Lab FileID: G108723.D

Page 1 of 3

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\vg5270\gl08723.d Vial: 47
Acq On : 27 Mar 2008 9:46 am Operator: SCOTTM
Sample : CC5266-50 Inst : MSG
Misc : MS62480, VG5270,,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\mg5266.m (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Wed Mar 26 17:10:43 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	85	-0.03	5.82
2 M	tertiary butyl alcohol	1.068	1.224	-14.6	103	0.00	5.99
----- True Calc. % Drift -----							
3 M	acetonitrile	500.000	496.929	0.6	91	-0.03	9.27
4 M	1,4-dioxane	1250.000	1402.425	-12.2	104	-0.01	13.15
----- AvgRF CCRF % Dev -----							
5 I	pentafluorobenzene	1.000	1.000	0.0	110	-0.04	9.57
6 M	chlorodifluoromethane	0.475	0.583	-22.7#	147	0.04	3.12
7 M	dichlorodifluoromethane	0.591	0.765	-29.4#	139	-0.04	3.14
8 M	chloromethane	0.408	0.403	1.2	109	-0.03	3.44
9 M	vinyl chloride	0.342	0.389	-13.7	124	-0.03	3.66
10 M	bromomethane	0.360	0.397	-10.3	122	-0.02	4.30
11 M	chloroethane	0.259	0.292	-12.7	123	-0.01	4.42
12 M	trichlorofluoromethane	0.649	0.867	-33.6#	143	-0.02	4.84
13 M	ethyl ether	0.170	0.182	-7.1	113	0.00	5.29
14 M	acrolein	0.035	0.023	34.3#	74	0.00	5.50
15 M	freon 113	0.630	0.836	-32.7#	140	-0.03	5.56
16 M	acetone	0.030	0.032	-6.7	118	-0.02	5.59
17 M	1,1-dichloroethene	0.326	0.386	-18.4	130	-0.01	5.83
18 M	iodomethane	0.748	0.839	-12.2	123	-0.01	6.37
19 M	methyl acetate	0.197	0.181	8.1	97	-0.02	6.40
20 M	allyl chloride	0.488	0.541	-10.9	118	-0.01	6.46
21 M	methylene chloride	0.338	0.370	-9.5	121	-0.02	6.67
22 M	carbon disulfide	0.877	0.963	-9.8	120	-0.01	6.71
23 M	acrylonitrile	0.057	0.053	7.0	97	0.00	6.89
24 M	methyl tert butyl ether	0.941	0.919	2.3	109	0.00	6.98
25 M	trans-1,2-dichloroethene	0.376	0.455	-21.0#	130	-0.01	7.21
26 M	hexane	0.473	0.572	-20.9#	134	-0.02	7.32
27 M	di-isopropyl ether	1.685	1.661	1.4	114	-0.01	7.79
28 M	1,1-dichloroethane	0.745	0.803	-7.8	121	-0.02	7.97
----- True Calc. % Drift -----							
29 M	vinyl acetate	50.000	51.426	-2.9	119	-0.02	7.97
----- AvgRF CCRF % Dev -----							
30 M	chloroprene	0.546	0.618	-13.2	125	-0.01	8.17
31 M	ethyl tert-butyl ether	1.390	1.412	-1.6	114	-0.01	8.56
32 M	2-butanone	0.133	0.118	11.3	109	0.00	8.77

Continuing Calibration Summary

Job Number: J85904
Account: EHTXF Entact Houston
Project: Chevron, Perth Amboy

Sample: VG5270-CC5266
Lab FileID: G108723.D

Page 2 of 3

		True	Calc.	% Drift			
33 M	propionitrile	500.000	386.882	22.6#	97	-0.02	8.89
		AvgRF	CCRF	% Dev			
34 M	2,2-dichloropropane	0.664	0.755	-13.7	130	0.00	9.06
35 M	ethyl acetate	0.687	0.765	-11.4	123	-0.03	9.11
36 M	cis-1,2-dichloroethene	0.412	0.485	-17.7	128	-0.02	9.12
		True	Calc.	% Drift			
37 M	methacrylonitrile	50.000	37.610	24.8#	91	-0.02	9.29
		AvgRF	CCRF	% Dev			
38 M	methyl acrylate	0.266	0.244	8.3	104	-0.01	9.31
39 M	iso-butyl alcohol	0.000	0.013	0.0	0#	-0.02	9.34
40 M	chloroform	0.804	0.894	-11.2	125	-0.03	9.41
41 M	bromochloromethane	0.226	0.250	-10.6	121	-0.02	9.73
		True	Calc.	% Drift			
42 M	tetrahydrofuran	50.000	37.929	24.1#	97	-0.04	9.81
		AvgRF	CCRF	% Dev			
43 M	1,1,1-trichloroethane	0.666	0.772	-15.9	131	-0.02	10.20
44 S	dibromofluoromethane (s)	0.673	0.606	10.0	113	-0.03	9.84
45 S	1,2-dichloroethane-d4 (s)	0.460	0.376	18.3	104	-0.02	10.81
46 I	1,4-difluorobenzene	1.000	1.000	0.0	112	-0.01	11.58
47 M	n-butyl alcohol	0.022	0.025	-13.6	130	-0.02	10.23
48 M	cyclohexane	0.378	0.479	-26.7#	141	-0.03	10.25
49 M	1,1-dichloropropene	0.495	0.567	-14.5	130	-0.02	10.50
50 M	isopropyl acetate	0.130	0.111	14.6	104	0.00	10.65
51 M	carbon tetrachloride	0.469	0.560	-19.4	135	-0.02	10.71
52 M	tert-amyl methyl ether	0.961	0.938	2.4	115	-0.03	10.75
53 M	heptane	0.379	0.447	-17.9	130	0.00	10.85
54 M	1,2-dichloroethane	0.379	0.393	-3.7	115	-0.03	10.98
		True	Calc.	% Drift			
55 M	benzene	50.000	56.436	-12.9	128	-0.02	11.03
		AvgRF	CCRF	% Dev			
56 M	trichloroethene	0.396	0.453	-14.4	126	0.00	12.26
57 M	methylcyclohexane	0.450	0.566	-25.8#	135	-0.04	12.39
58 M	1,2-dichloropropane	0.374	0.370	1.1	120	-0.01	12.61
59 M	propyl acetate	0.453	0.394	13.0	96	-0.02	12.69
60 M	methyl methacrylate	0.215	0.195	9.3	107	-0.02	12.74
61 M	bromodichloromethane	0.666	0.706	-6.0	120	-0.03	13.09
62 M	dibromomethane	0.290	0.300	-3.4	115	-0.03	13.19
63 M	2-nitropropane	0.887	0.872	1.7	106	-0.03	13.73
64 M	3-methyl-1-butanol	0.015	0.010	33.3#	92	-0.03	13.31
65 M	2-chloroethyl vinyl ether	0.158	0.169	-7.0	112	-0.03	13.72
66 M	4-methyl-2-pentanone	0.131	0.123	6.1	101	-0.02	13.80
67 M	epichlorohydrin	0.075	0.067	10.7	106	-0.03	13.73
68 M	cis-1,3-dichloropropene	0.548	0.609	-11.1	122	-0.02	14.23
69 M	toluene	0.606	0.692	-14.2	130	-0.02	14.91
70 M	trans-1,3-dichloropropene	0.440	0.482	-9.5	117	-0.02	15.27
71 M	ethyl methacrylate	0.444	0.406	8.6	104	-0.01	15.27
72 M	1,1,2-trichloroethane	0.265	0.269	-1.5	114	-0.02	15.59
73 M	2-hexanone	0.242	0.221	8.7	111	-0.03	15.62
74 S	toluene-d8 (s)	0.977	0.952	2.6	119	-0.03	14.74
		True	Calc.	% Drift			
75 I	chlorobenzene-d5	1.000	1.000	0.0	110	-0.03	17.78

5.7

5

Continuing Calibration Summary

Job Number: J85904
 Account: EHTXF Entact Houston
 Project: Chevron, Perth Amboy

Sample: VG5270-CC5266
 Lab FileID: G108723.D

Page 3 of 3

76 M	1,3-dichloropropane	0.650	0.700	-7.7	115	-0.02	16.11
77 M	butyl acetate	0.316	0.293	7.3	99	-0.01	16.13
78 M	tetrachloroethene	0.658	0.753	-14.4	128	-0.02	16.24
79 M	dibromochloromethane	0.613	0.646	-5.4	115	-0.03	16.63
80 M	1,2-dibromoethane	0.479	0.506	-5.6	111	-0.02	17.03
81 M	chlorobenzene	0.935	1.096	-17.2	127	-0.03	17.85
82 M	1,1,1,2-tetrachloroethane	0.504	0.571	-13.3	121	-0.03	17.94
83 M	ethylbenzene	1.340	1.527	-14.0	127	-0.02	17.96
84 M	m,p-xylene	0.564	0.652	-15.6	129	-0.03	18.11
85 M	o-xylene	0.572	0.672	-17.5	127	-0.01	18.94
86 M	styrene	0.852	0.997	-17.0	123	-0.01	19.01
87 M	bromoform	0.417	0.405	2.9	102	-0.02	19.63
88 M	cyclohexanone	0.073	0.067	8.2	105	-0.02	19.70
89 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	107	-0.02	22.21
90 S	4-bromofluorobenzene (s)	1.286	1.129	12.2	109	-0.04	20.06
91 M	isopropylbenzene	2.518	2.831	-12.4	127	-0.02	19.61
92 M	1,1,1,2-tetrachloroethane	1.043	0.999	4.2	108	-0.02	19.93
93 M	1,2,3-trichloropropane	0.291	0.287	1.4	107	-0.02	20.19
94 M	trans-1,4-dichloro-2-bute	0.191	0.192	-0.5	106	-0.03	20.31
95 M	n-propylbenzene	3.215	3.571	-11.1	128	-0.01	20.35
96 M	bromobenzene	0.817	0.908	-11.1	122	-0.01	20.43
97 M	1,3,5-trimethylbenzene	2.283	2.432	-6.5	124	-0.03	20.64
98 M	2-chlorotoluene	1.692	1.844	-9.0	122	-0.09	20.68
99 M	4-chlorotoluene	2.366	2.753	-16.4	123	-0.02	20.75
100 M	tert-butylbenzene	1.711	1.912	-11.7	123	-0.02	21.29
101 M	1,2,4-trimethylbenzene	2.264	2.373	-4.8	121	-0.01	21.35
102 M	pentachloroethane	0.666	0.714	-7.2	117	-0.02	21.40
103 M	sec-butylbenzene	3.109	3.485	-12.1	127	-0.03	21.67
104 M	p-isopropyltoluene	2.669	2.895	-8.5	124	-0.02	21.91
105 M	1,3-dichlorobenzene	1.361	1.480	-8.7	121	-0.02	22.08
106 M	1,4-dichlorobenzene	1.470	1.561	-6.2	121	-0.02	22.26
107 M	benzyl chloride	1.025	1.066	-4.0	110	-0.03	22.47
108 M	n-butylbenzene	2.363	2.895	-22.5#	125	-0.02	22.64
109 M	1,2-dichlorobenzene	1.341	1.427	-6.4	117	-0.01	22.93
110 M	hexachloroethane	0.684	0.783	-14.5	120	-0.02	23.56
111 M	1,2-dibromo-3-chloropropa	0.227	0.190	16.3	85	0.00	24.31
		True	Calc.	% Drift			
112 M	nitrobenzene	50.000	53.214	-6.4	128	-0.02	24.30
		AvgRF	CCRF	% Dev			
113 M	1,2,4-trichlorobenzene	1.023	1.175	-14.9	118	-0.01	25.69
114 M	hexachlorobutadiene	0.793	0.884	-11.5	118	-0.02	25.89
115 M	naphthalene	1.425	1.394	2.2	104	-0.01	26.06
116 M	1,2,3-trichlorobenzene	0.916	0.950	-3.7	112	-0.01	26.40
117 M	Ethylenimine	-----NA-----					
118 M	Bis(chloromethyl)ether	-----NA-----					

(#) = Out of Range
 G108665.D mg5266.m

SPCC's out = 0 CCC's out = 0
 Tue Apr 01 14:17:50 2008 NJVMVOA05



GC/MS Volatiles

Raw Data



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1C\V1C2073\1C49733.D Vial: 17
 Acq On : 27 Mar 2008 5:34 pm Operator: MaoH
 Sample : J85904-1 Inst : MS1C
 Misc : MS62223,V1C2073,10,,100,10,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P
 Quant Time: Mar 27 17:58:19 2008 Quant Results File: M1C2051.RES

Quant Method : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
 Title : SW-846 Method 8260B
 Last Update : Thu Mar 13 17:13:49 2008
 Response via : Initial Calibration
 DataAcq Meth : M1C2051

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	9.21	65	108251	500.00	ug/L	0.02
4) pentafluorobenzene	11.59	168	223432	50.00	ug/L	0.00
46) 1,4-difluorobenzene	12.55	114	298247	50.00	ug/L	0.00
74) chlorobenzene-d5	15.88	117	286854	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	18.37	152	190145	50.00	ug/L	0.00

System Monitoring Compounds

40) dibromofluoromethane (s)	11.66	113	110896	46.33	ug/L	0.00
Spiked Amount	50.000	Range	68 - 123	Recovery	=	92.66%
41) 1,2-dichloroethane-d4 (s)	12.10	65	160017	45.34	ug/L	0.00
Spiked Amount	50.000	Range	59 - 136	Recovery	=	90.68%
66) toluene-d8 (s)	14.27	98	377898	46.80	ug/L	0.00
Spiked Amount	50.000	Range	75 - 123	Recovery	=	93.60%
90) 4-bromofluorobenzene (s)	17.11	95	160964	47.74	ug/L	0.00
Spiked Amount	50.000	Range	65 - 140	Recovery	=	95.48%

Target Compounds

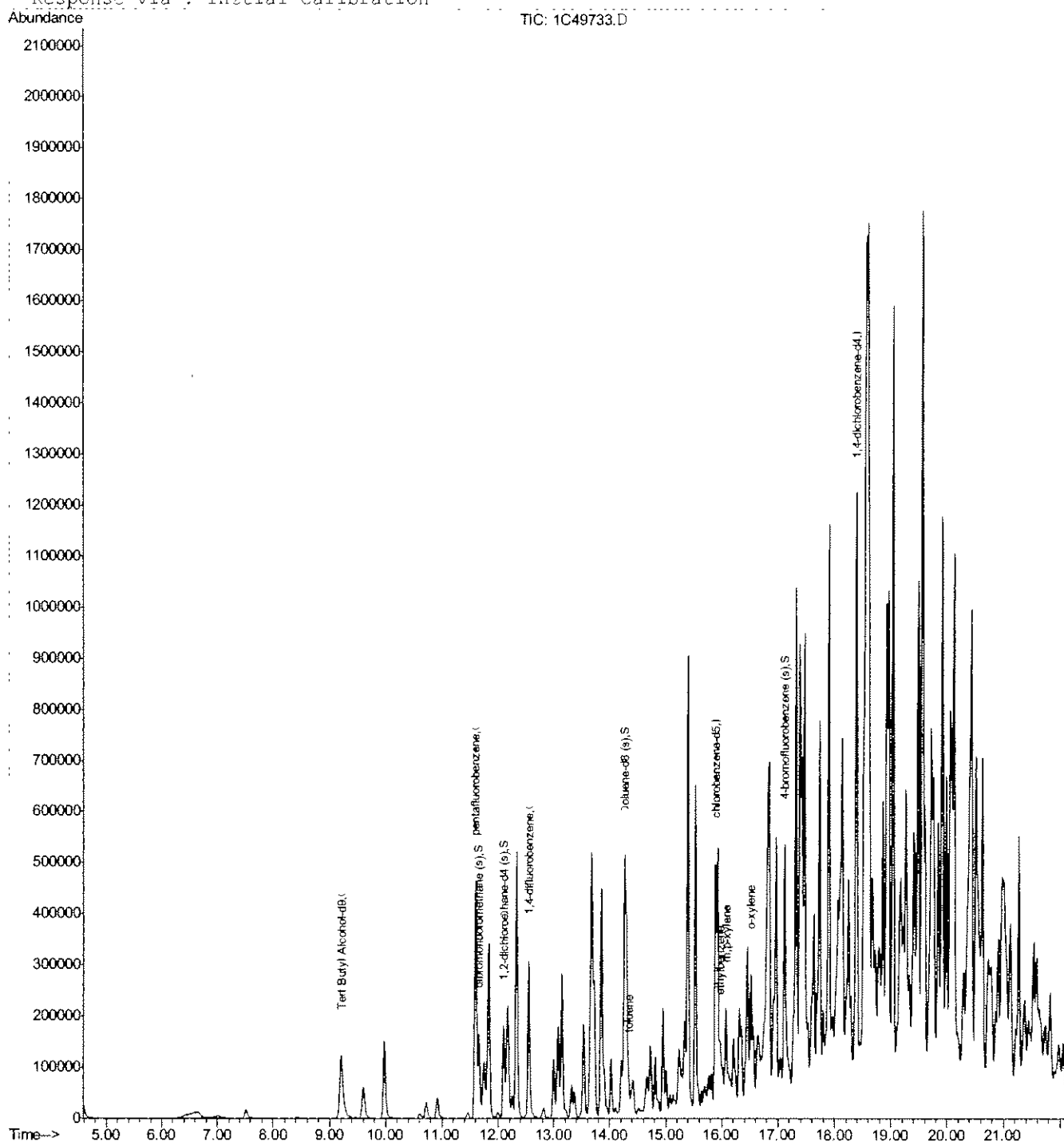
					Qvalue
68) toluene	14.34	92	3713	0.73 ug/L	# 63
83) ethylbenzene	15.97	91	7858	0.76 ug/L	82
84) m,p-xylene	16.07	106	46283	11.41 ug/L	95
85) o-xylene	16.52	106	70838	17.38 ug/L	95

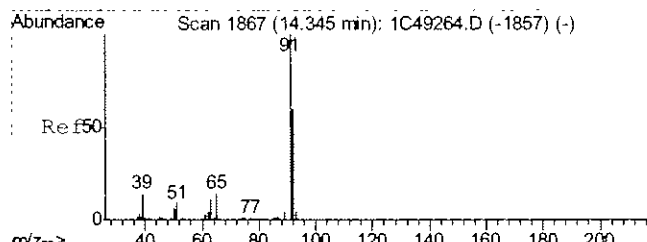
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 1C49733.D M1C2051.M Mon Mar 31 16:18:07 2008 NJVOA03

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1C\1C2073\1C49733.D Vial: 17
Acq On : 27 Mar 2008 5:34 pm Operator: MaoH
Sample : j85904-1 Inst : MS1C
Misc : MS62223,1C2073,10,,100,10,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 16:13 2008 Quant Results File: M1C2051.RES

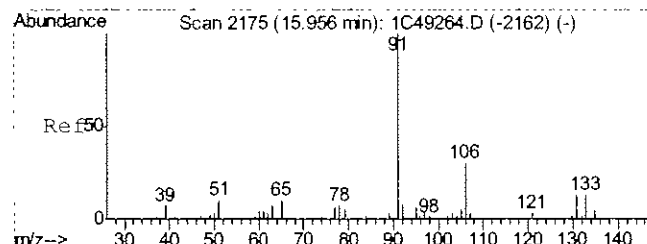
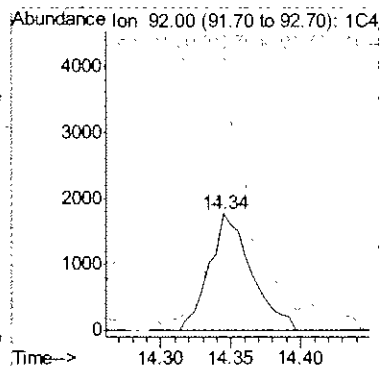
Method : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Thu Mar 13 17:13:49 2008
Response via : Initial Calibration





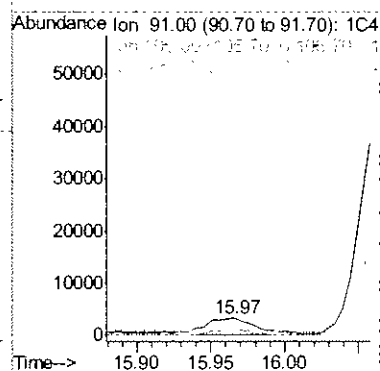
#68
toluene
Concen: 0.73 ug/L
RT: 14.34 min Scan# 1867
Delta R.T. -0.00 min
Lab File: 1C49733.D
Acq: 27 Mar 2008 5:34 pm

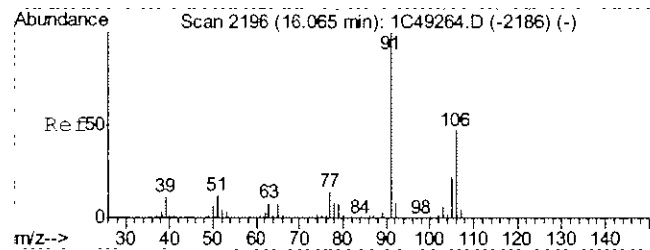
Tgt Ion: 92 Resp: 3713
Ion Ratio Lower Upper
92 100
91 117.8 136.3 196.3#
65 2.4 0.0 52.7



#83
ethylbenzene
Concen: 0.76 ug/L
RT: 15.97 min Scan# 2177
Delta R.T. 0.01 min
Lab File: 1C49733.D
Acq: 27 Mar 2008 5:34 pm

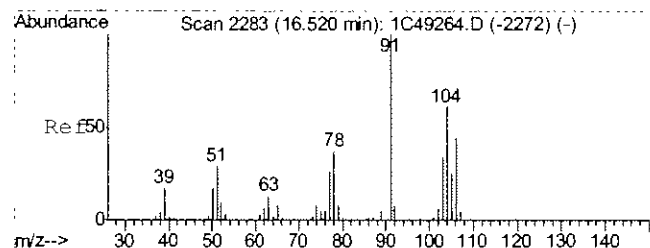
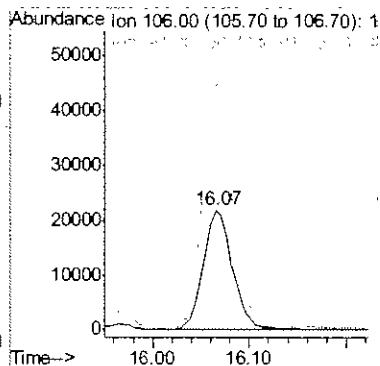
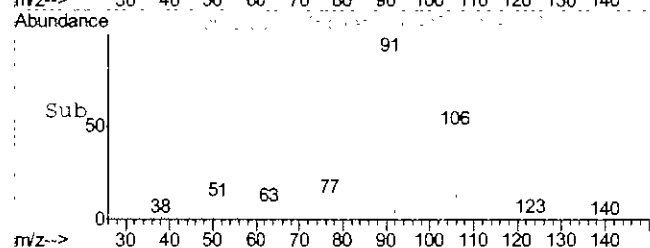
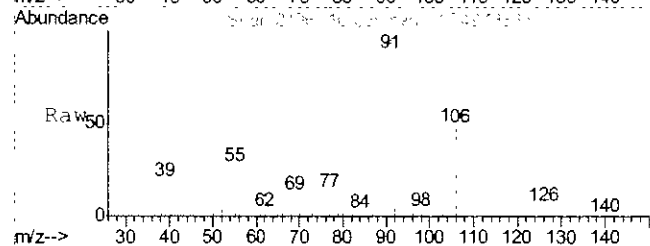
Tgt Ion: 91 Resp: 7858
Ion Ratio Lower Upper
91 100
106 37.0 0.5 60.5
65 22.8 0.0 39.7





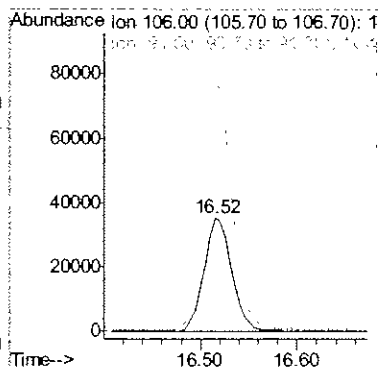
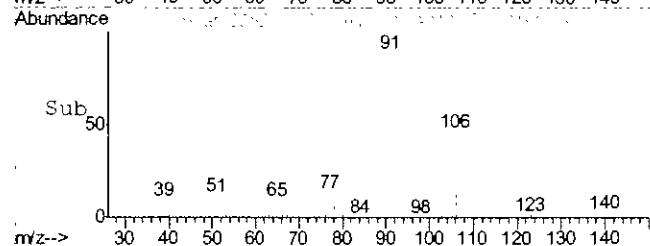
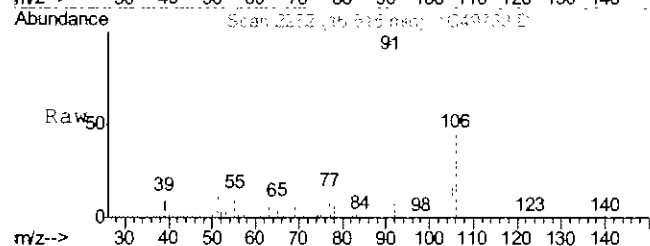
#84
m,p-xylene
Concen: 11.41 ug/L
RT: 16.07 min Scan# 2196
Delta R.T. -0.00 min
Lab File: 1C49733.D
Acq: 27 Mar 2008 5:34 pm

Tgt Ion:106 Resp: 46283
Ion Ratio Lower Upper
106 100
91 205.5 182.8 242.8



#85
o-xylene
Concen: 17.38 ug/L
RT: 16.52 min Scan# 2282
Delta R.T. -0.01 min
Lab File: 1C49733.D
Acq: 27 Mar 2008 5:34 pm

Tgt Ion:106 Resp: 70838
Ion Ratio Lower Upper
106 100
91 217.2 195.7 255.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
 Data File : g108730.d
 Acq On : 27 Mar 2008 2:20 pm
 Operator : SCOTTM
 Sample : J85904-1,VTCL
 Misc : MS62223,VG5270,0.58,,,,,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 02 09:08:58 2008
 Quant Method : C:\HPCHEM\1\METHODS\MG5266.M
 Quant Title : SW-846 Method 8260B
 QLast Update : Thu Mar 27 13:19:31 2008
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	5.851	65	128265	500.00	PPb	0.00
5) pentafluorobenzene	9.578	168	400374	50.00	PPb	-0.03
46) 1,4-difluorobenzene	11.593	114	517133	50.00	PPb	0.00
75) chlorobenzene-d5	17.790	117	357965	50.00	PPb	-0.02
89) 1,4-dichlorobenzene-d4	22.242	152	169961	50.00	PPb	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	9.847	113	224919	41.76	PPb	-0.02
Spiked Amount	50.000	Range	70 - 120	Recovery	=	83.52%
45) 1,2-dichloroethane-d4 (s)	10.809	65	157083	42.63	PPb	-0.02
Spiked Amount	50.000	Range	61 - 133	Recovery	=	85.26%
74) toluene-d8 (s)	14.746	98	448988	44.42	PPb	-0.02
Spiked Amount	50.000	Range	75 - 123	Recovery	=	88.84%
90) 4-bromofluorobenzene (s)	20.075	95	243481m	55.69	PPb	-0.02
Spiked Amount	50.000	Range	65 - 142	Recovery	=	111.38%

Target Compounds

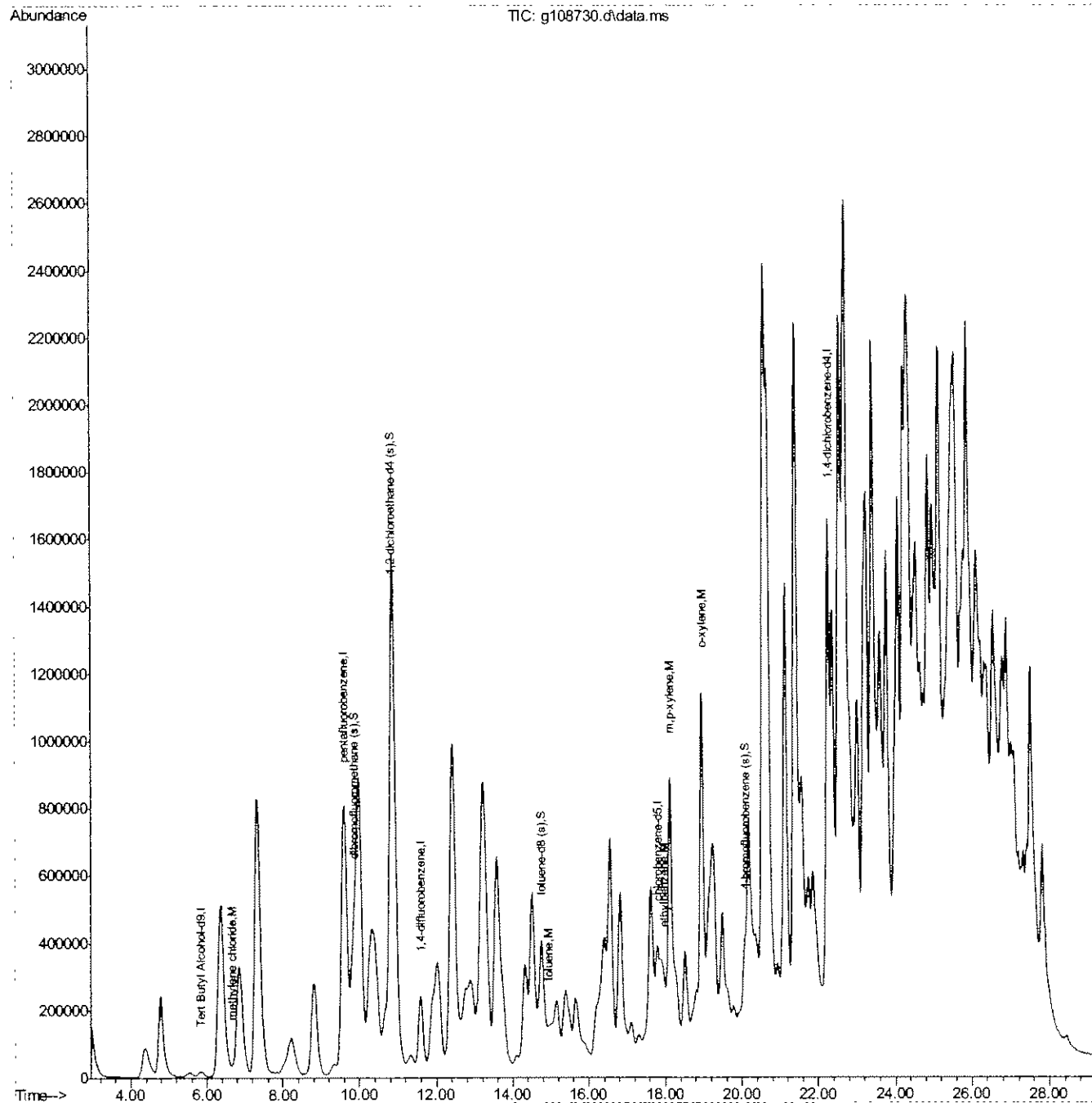
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
21) methylene chloride	6.660	84	27146	10.03	PPb	# 57
69) toluene	14.923	92	61502	9.81	PPb	93
83) ethylbenzene	17.959	91	96503	10.06	PPb	91
84) m,p-xylene	18.111	106	784576	194.14	PPb	93
85) o-xylene	18.945	106	986981	240.83	PPb	97

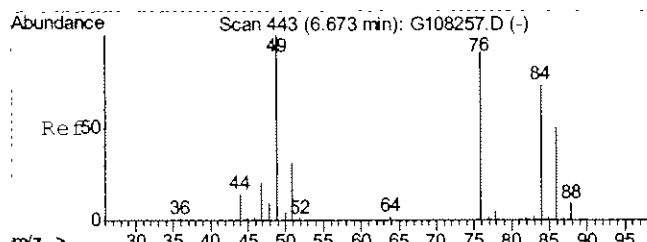
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : g108730.d
Acq On : 27 Mar 2008 2:20 pm
Operator : SCOTTM
Sample : J85904-1,VTCL
Misc : MS62223,VG5270,0.58,,,,,1
ALS Vial : 13 Sample Multiplier: 1

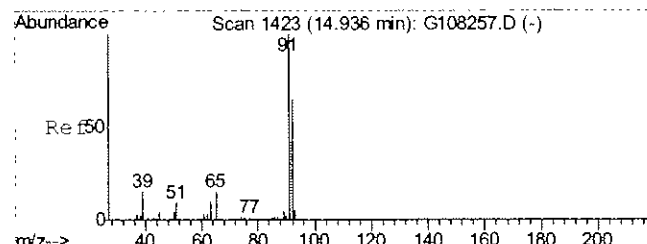
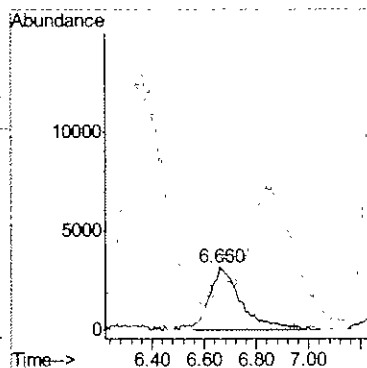
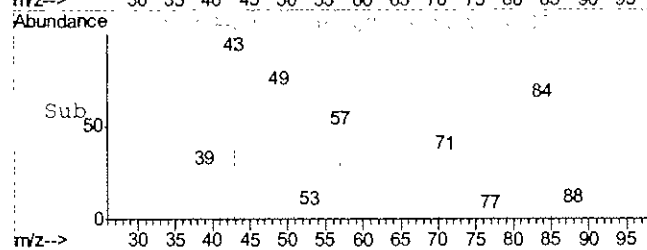
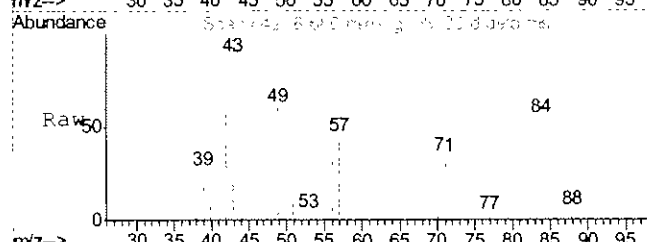
Quant Time: Apr 02 09:08:58 Z008
Quant Method : C:\HPCHEM\1\METHODS\MG5266.M
Quant Title : SW-846 Method 8260B
QLast Update : Thu Mar 27 13:19:31 2008
Response via : Initial Calibration





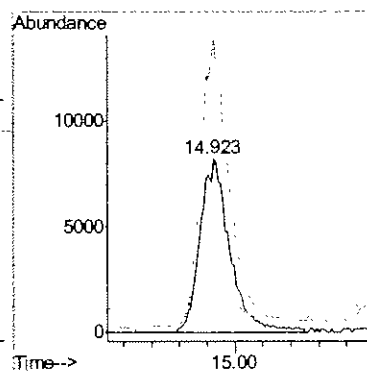
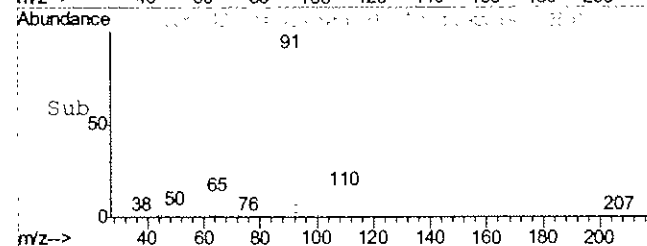
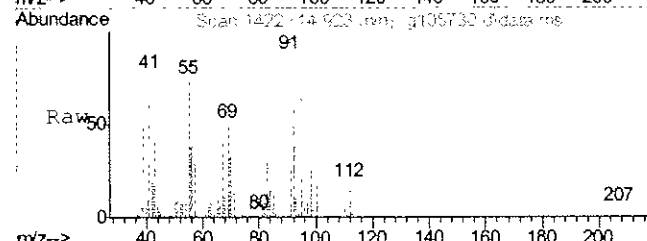
#21
methylene chloride
Concen: 10.03 PPb
RT: 6.660 min Scan# 442
Delta R.T. -0.025 min
Lab File: g108730.d
Acq: 27 Mar 2008 2:20 pm

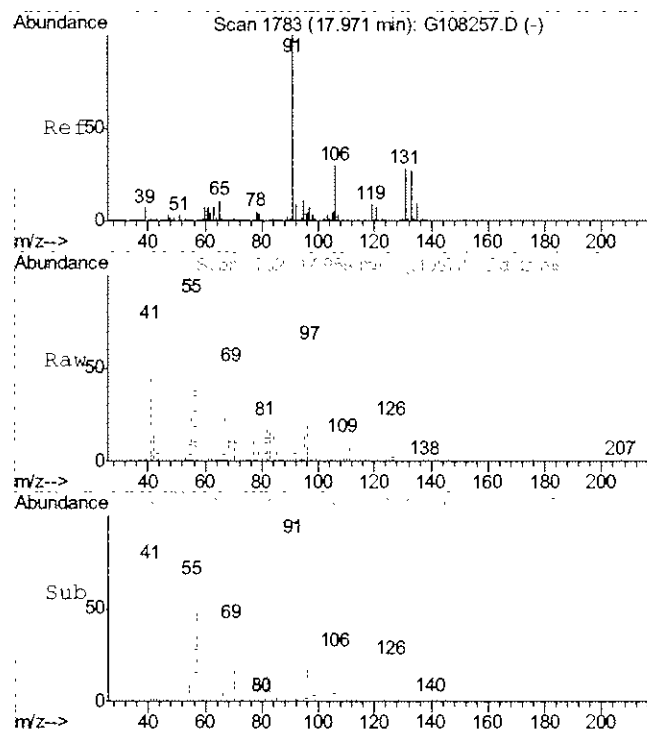
Tgt Ion: 84 Resp: 27146
Ion Ratio Lower Upper
84 100
86 0.0 37.5 97.5#
49 108.6 104.6 164.6



#69
toluene
Concen: 9.81 PPb
RT: 14.923 min Scan# 1422
Delta R.T. -0.008 min
Lab File: g108730.d
Acq: 27 Mar 2008 2:20 pm

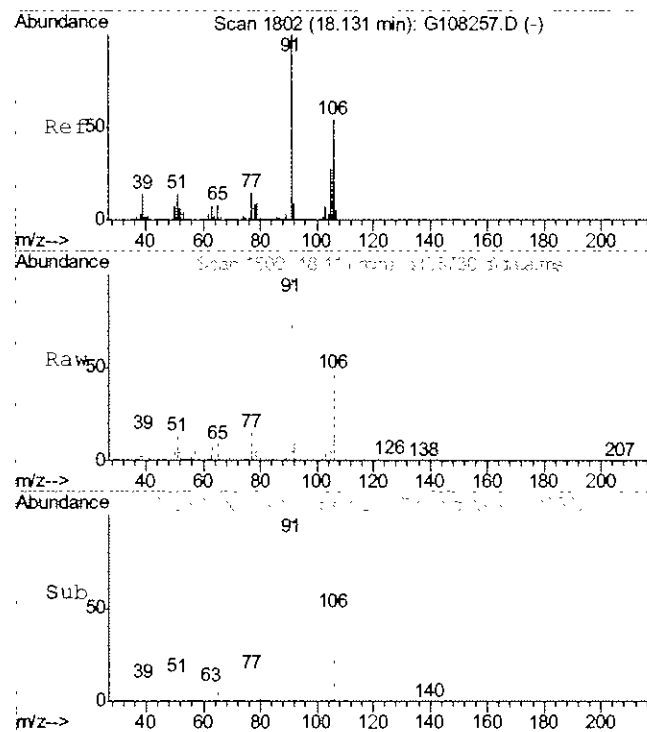
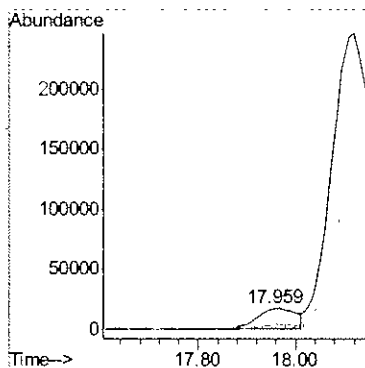
Tgt Ion: 92 Resp: 61502
Ion Ratio Lower Upper
92 100
91 166.1 127.1 187.1
65 21.8 0.0 55.0





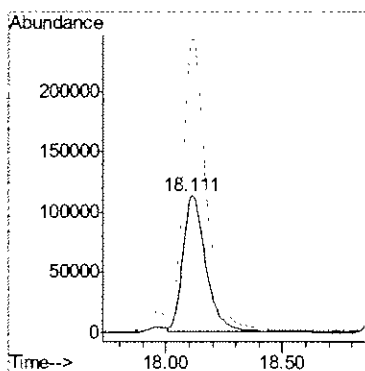
#83
ethylbenzene
Concen: 10.06 PPb
RT: 17.959 min Scan# 1782
Delta R.T. -0.017 min
Lab File: g108730.d
Acq: 27 Mar 2008 2:20 pm

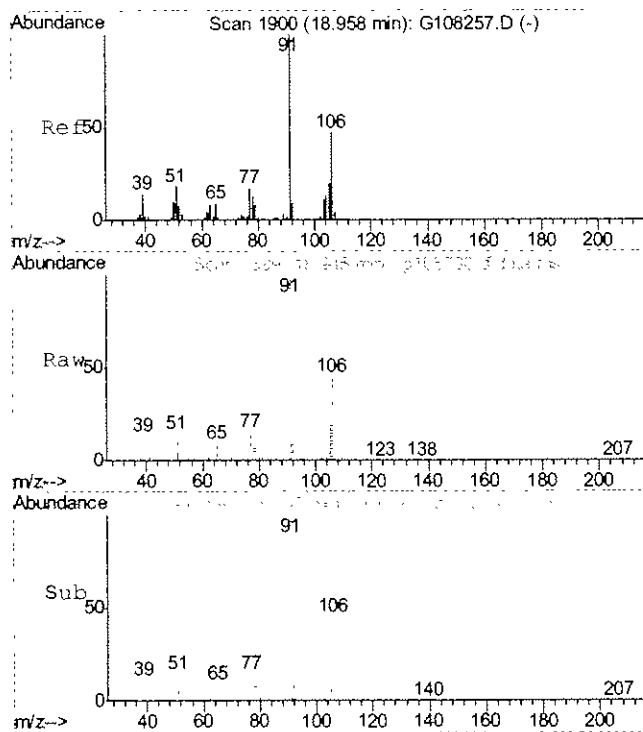
Tgt Ion: 91 Resp: 96503
Ion Ratio Lower Upper
91 100
106 24.3 0.5 60.5
65 12.5 0.0 41.5



#84
m,p-xylene
Concen: 194.14 PPb
RT: 18.111 min Scan# 1800
Delta R.T. -0.025 min
Lab File: g108730.d
Acq: 27 Mar 2008 2:20 pm

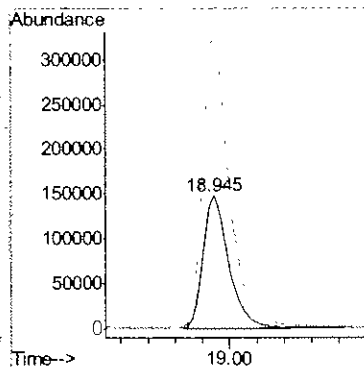
Tgt Ion: 106 Resp: 784576
Ion Ratio Lower Upper
106 100
91 211.7 141.3 262.3





#85
o-xylene
Concen: 240.83 PPb
RT: 18.945 min Scan# 1899
Delta R.T. -0.008 min
Lab File: g108730.d
Acq: 27 Mar 2008 2:20 pm

Tgt Ion:106 Resp: 986981
Ion Ratio Lower Upper
106 100
91 223.1 152.4 283.0
105 42.1 28.4 52.8

6.12
6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1C\1C2071\1C49690.D Vial: 18
Acq On : 26 Mar 2008 6:32 pm Operator: MaoH
Sample : j85904-2 Inst : MS1C
Misc : MS62223,1C2071,9.7,,10,10,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 26 18:56:32 2008 Quant Results File: M1C2051.RES

Quant Method : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Thu Mar 13 17:13:49 2008
Response via : Initial Calibration
DataAcq Meth : M1C2051

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	9.19	65	99452	500.00	ug/L	0.00
4) pentafluorobenzene	11.59	168	227594	50.00	ug/L	0.00
46) 1,4-difluorobenzene	12.55	114	300508	50.00	ug/L	0.00
74) chlorobenzene-d5	15.88	117	287340	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	18.37	152	194220	50.00	ug/L	0.00

System Monitoring Compounds

40) dibromofluoromethane (s)	11.66	113	111596	45.77	ug/L	0.00
Spiked Amount	50.000	Range	68 - 123	Recovery	=	91.54%
41) 1,2-dichloroethane-d4 (s)	12.10	65	160125	44.54	ug/L	0.00
Spiked Amount	50.000	Range	59 - 136	Recovery	=	89.08%
66) toluene-d8 (s)	14.27	98	389807	47.91	ug/L	0.00
Spiked Amount	50.000	Range	75 - 123	Recovery	=	95.82%
90) 4-bromofluorobenzene (s)	17.11	95	159161	46.22	ug/L	0.00
Spiked Amount	50.000	Range	65 - 140	Recovery	=	92.44%

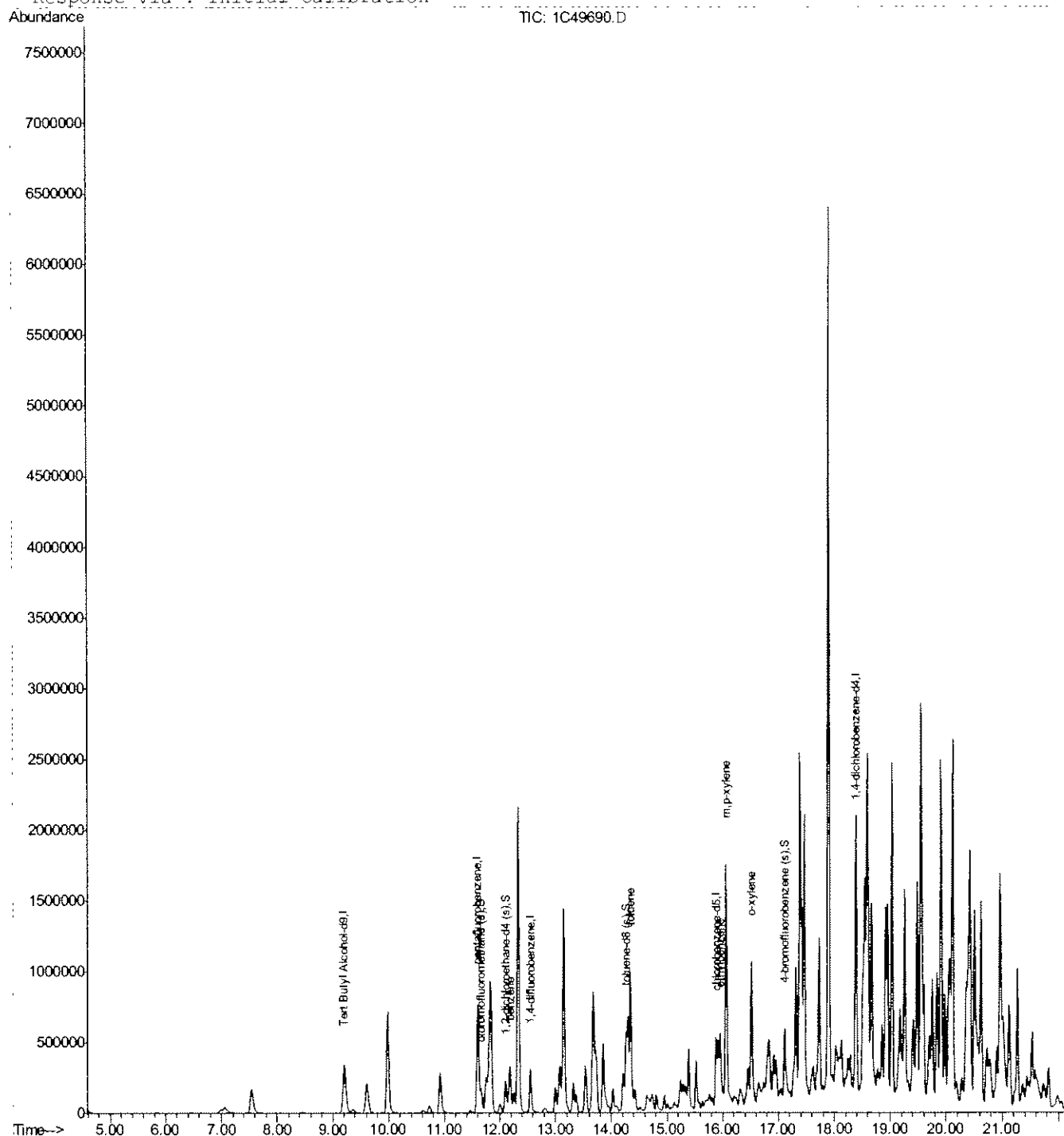
Target Compounds					Qvalue
52) benzene	12.18	78	69372	8.86	ug/L 96
68) toluene	14.34	92	458563	89.23	ug/L 96
83) ethylbenzene	15.96	91	324962	31.22	ug/L 99
84) m,p-xylene	16.06	106	566583	139.41	ug/L 96
85) o-xylene	16.52	106	309147	75.74	ug/L 100

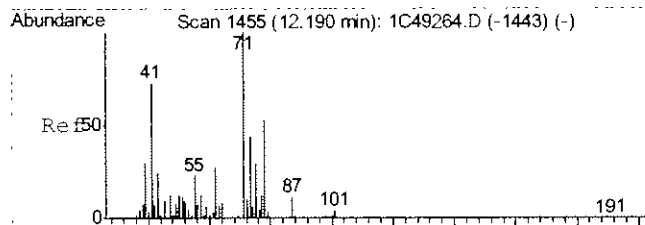
(#) = qualifier out of range (m) = manual integration (+) = signals summed
1C49690.D M1C2051.M Thu Mar 27 12:08:16 2008 NJVOA03

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1C\V1C2071\1C49690.D Vial: 18
Acq On : 26 Mar 2008 6:32 pm Operator: MaoH
Sample : j85904-2 Inst : MS1C
Misc : MS62223,V1C2071,9.7,,10,10,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 27 12:03 2008 Quant Results File: M1C2051.RES

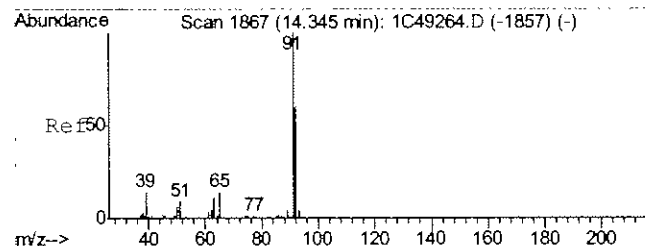
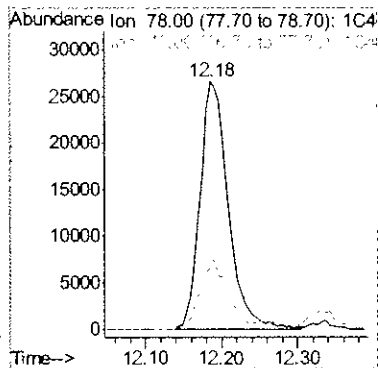
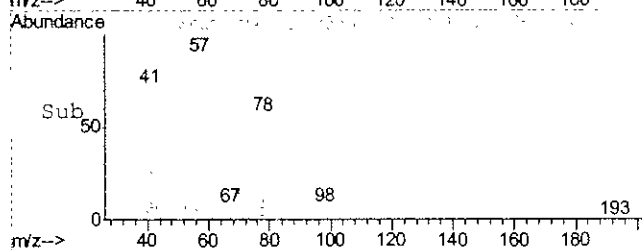
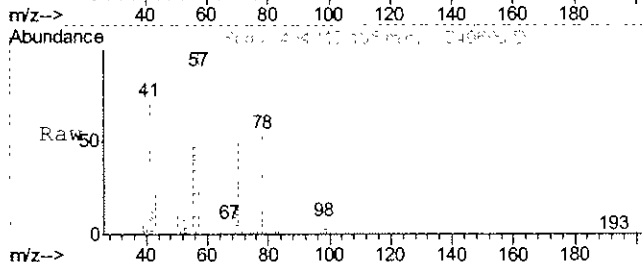
Method : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Thu Mar 13 17:13:49 2008
Response via : Initial Calibration





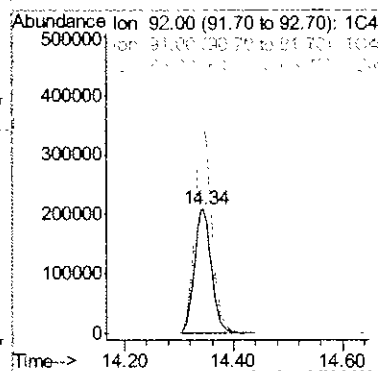
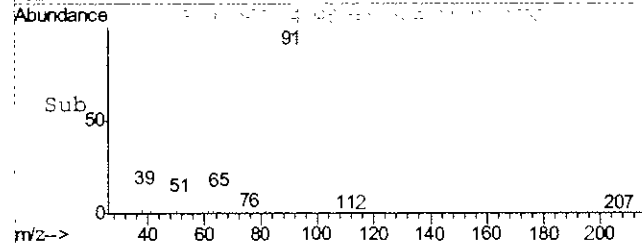
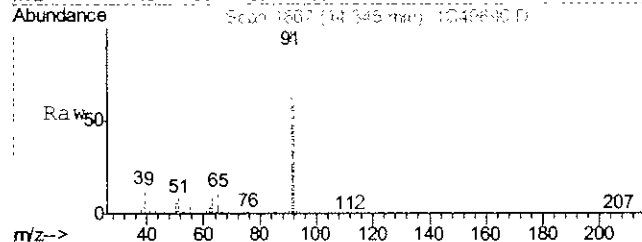
#52
benzene
Concen: 8.86 ug/L
RT: 12.18 min Scan# 1454
Delta R.T. -0.01 min
Lab File: 1C49690.D
Acq: 26 Mar 2008 6:32 pm

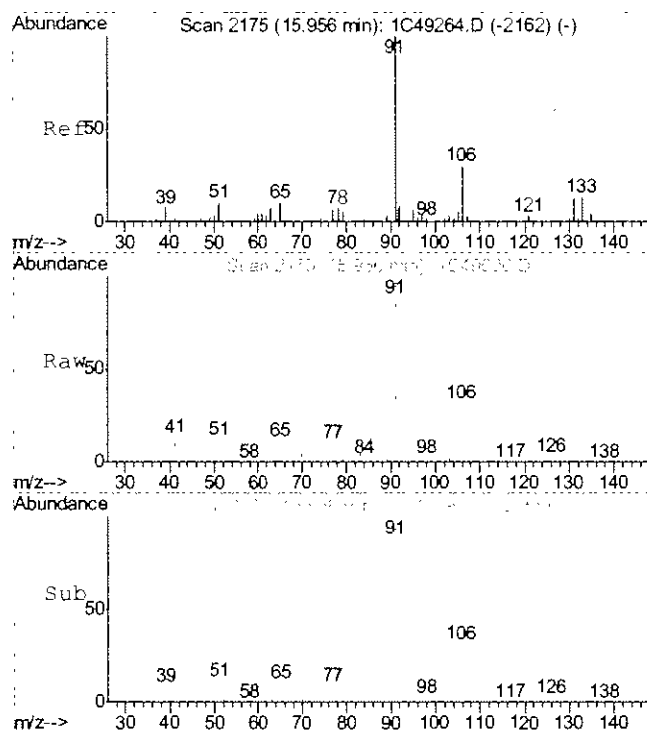
Tgt Ion: 78 Resp: 69372
Ion Ratio Lower Upper
78 100
77 25.6 0.0 53.5



#68
toluene
Concen: 89.23 ug/L
RT: 14.34 min Scan# 1867
Delta R.T. 0.00 min
Lab File: 1C49690.D
Acq: 26 Mar 2008 6:32 pm

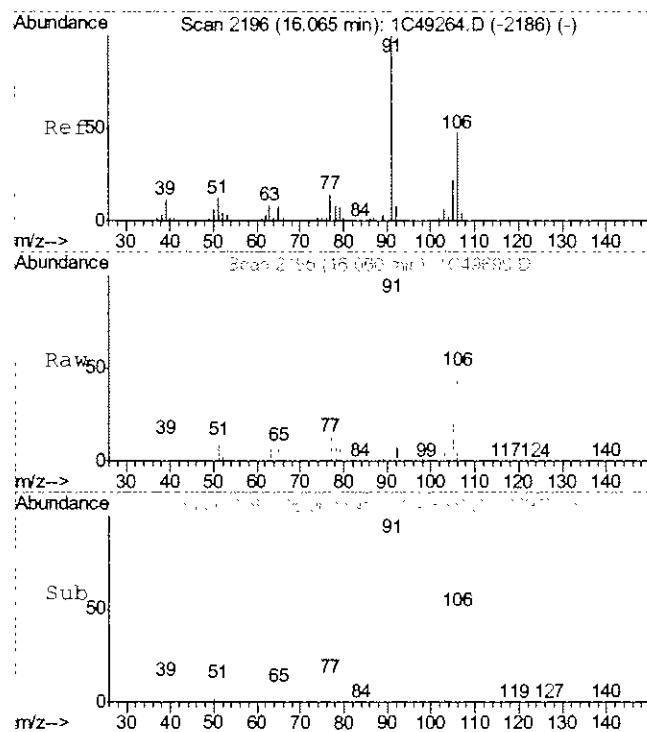
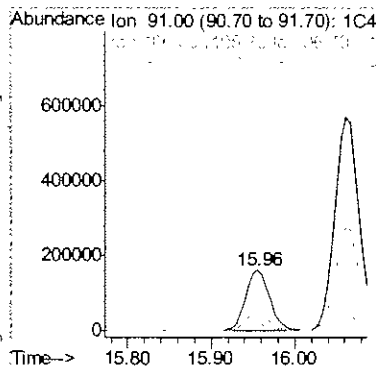
Tgt Ion: 92 Resp: 458563
Ion Ratio Lower Upper
92 100
91 171.6 136.3 196.3
65 21.0 0.0 52.7





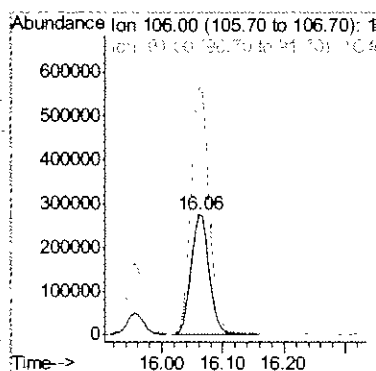
#83
ethylbenzene
Concen: 31.22 ug/L
RT: 15.96 min Scan# 2175
Delta R.T. 0.00 min
Lab File: 1C49690.D
Acq: 26 Mar 2008 6:32 pm

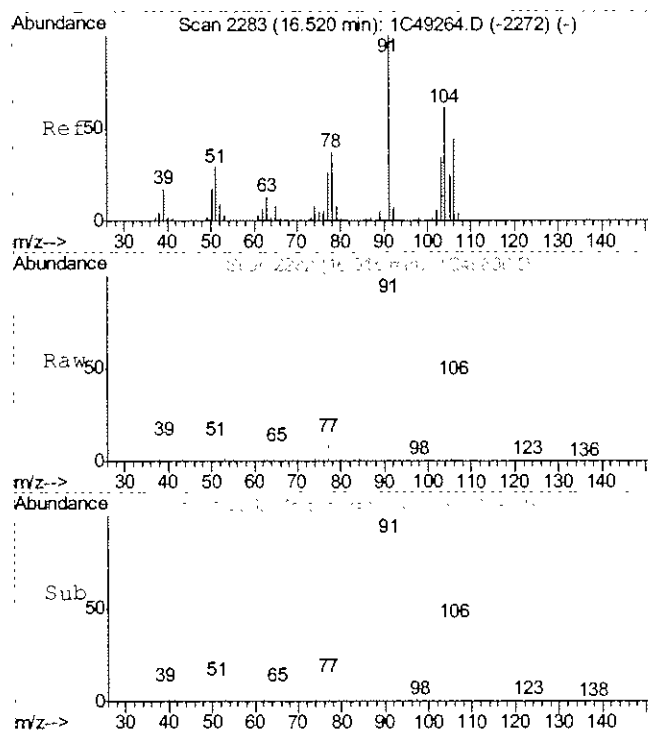
Tgt Ion: 91 Resp: 324962
Ion Ratio Lower Upper
91 100
106 30.6 0.5 60.5
65 10.4 0.0 39.7



#84
m,p-xylene
Concen: 139.41 ug/L
RT: 16.06 min Scan# 2195
Delta R.T. -0.01 min
Lab File: 1C49690.D
Acq: 26 Mar 2008 6:32 pm

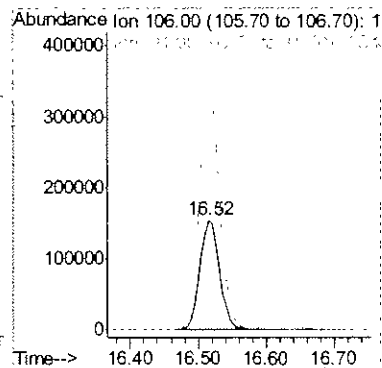
Tgt Ion: 106 Resp: 566583
Ion Ratio Lower Upper
106 100
91 205.8 182.8 242.8





#85
o-xylene
Concen: 75.74 ug/L
RT: 16.52 min Scan# 2282
Delta R.T. -0.01 min
Lab File: 1C49690.D
Acq: 26 Mar 2008 6:32 pm

Tgt Ion:106 Resp: 309147
Ion Ratio Lower Upper
106 100
91 226.4 195.7 255.7



6.13

6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1C\1C2071\1C49676.D Vial: 4
Acq On : 26 Mar 2008 11:09 am Operator: MaoH
Sample : mb Inst : MS1C
Misc : MS62107,V1C2071,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 26 11:33:11 2008 Quant Results File: M1C2051.RES

Quant Method : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Thu Mar 13 17:13:49 2008
Response via : Initial Calibration
DataAcq Meth : M1C2051

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	9.21	65	89188	500.00	ug/L	0.03
4) pentafluorobenzene	11.59	168	207074	50.00	ug/L	0.00
46) 1,4-difluorobenzene	12.55	114	272674	50.00	ug/L	0.00
74) chlorobenzene-d5	15.88	117	258643	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	18.38	152	163334	50.00	ug/L	0.00

System Monitoring Compounds

40) dibromofluoromethane (s)	11.66	113	102379	46.15	ug/L	0.00
Spiked Amount	50.000	Range	68 - 123	Recovery	=	92.30%
41) 1,2-dichloroethane-d4 (s)	12.10	65	147721	45.16	ug/L	0.00
Spiked Amount	50.000	Range	59 - 136	Recovery	=	90.32%
66) toluene-d8 (s)	14.27	98	343968	46.59	ug/L	0.00
Spiked Amount	50.000	Range	75 - 123	Recovery	=	93.18%
90) 4-bromofluorobenzene (s)	17.11	95	143413	49.52	ug/L	0.00
Spiked Amount	50.000	Range	65 - 140	Recovery	=	99.04%

Target Compounds

Qvalue

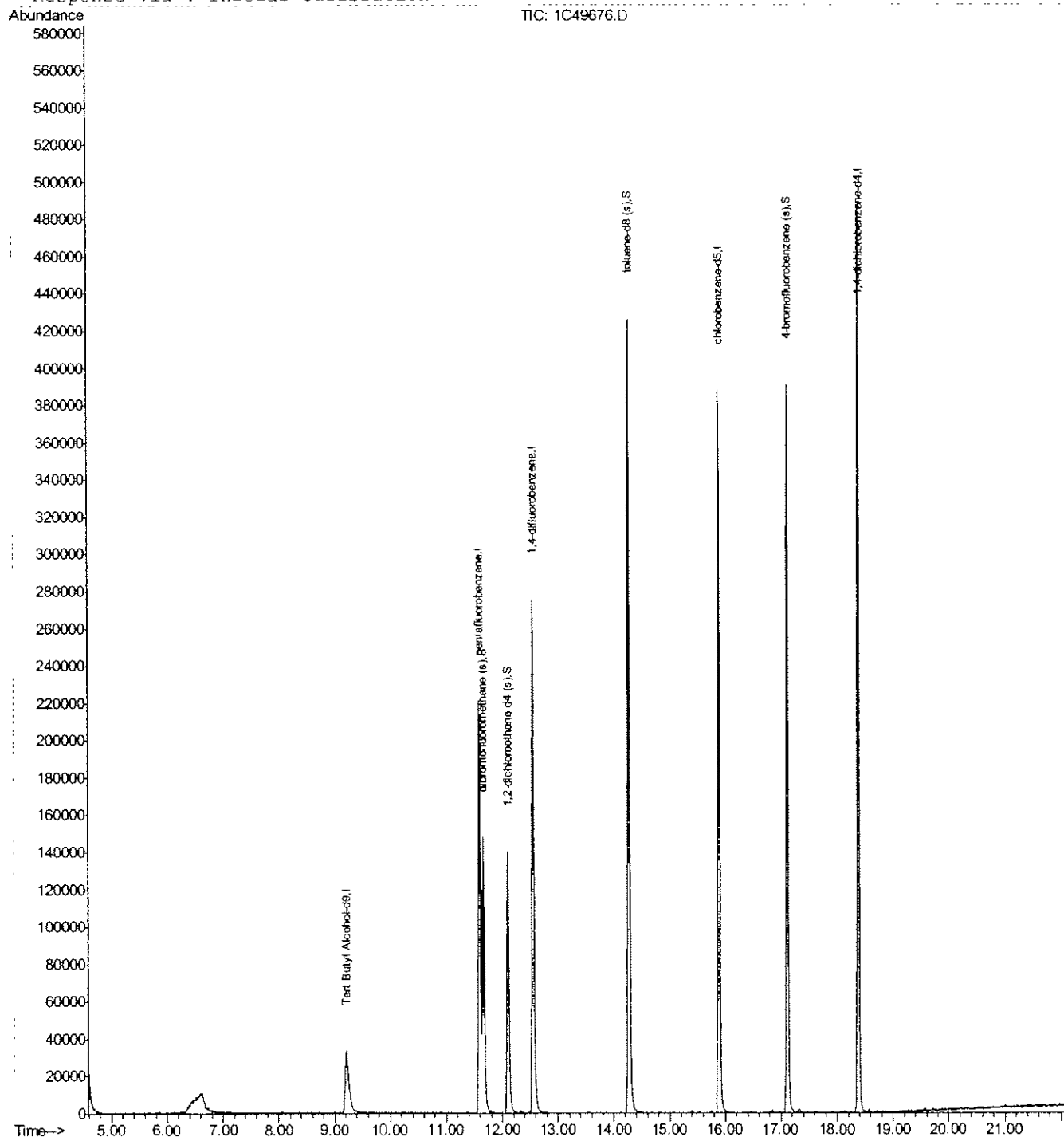
(#) = qualifier out of range (m) = manual integration (+) = signals summed
1C49676.D M1C2051.M Thu Mar 27 11:50:14 2008 NJVOA03

Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1C\V1C2071\1C49676.D Vial: 4
Acq On : 26 Mar 2008 11:09 am Operator: MaoH
Sample : mb Inst : MS1C
Misc : MS62107,V1C2071,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 27 11:50 2008 Quant Results File: M1C2051.RES

Method : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Thu Mar 13 17:13:49 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1C\1C2073\1C49720.D Vial: 4
Acq On : 27 Mar 2008 10:32 am Operator: MaoH
Sample : mb Inst : MS1C
Misc : MS62242,1C2073,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 27 10:56:17 2008 Quant Results File: M1C2051.RES

Quant Method : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
Title : SW-846 Method 8260B
Last Update : Thu Mar 13 17:13:49 2008
Response via : Initial Calibration
DataAcq Meth : M1C2051

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	9.21	65	79726	500.00	ug/L	0.03
4) pentafluorobenzene	11.59	168	181744	50.00	ug/L	0.00
46) 1,4-difluorobenzene	12.55	114	233444	50.00	ug/L	0.00
74) chlorobenzene-d5	15.88	117	224800	50.00	ug/L	0.00
88) 1,4-dichlorobenzene-d4	18.37	152	145105	50.00	ug/L	0.00

System Monitoring Compounds

40) dibromofluoromethane (s)	11.66	113	90898	46.69	ug/L	0.00
Spiked Amount	50.000	Range	68 - 123	Recovery	=	93.38%
41) 1,2-dichloroethane-d4 (s)	12.10	65	138720	48.32	ug/L	0.00
Spiked Amount	50.000	Range	59 - 136	Recovery	=	96.64%
66) toluene-d8 (s)	14.27	98	297702	47.10	ug/L	0.00
Spiked Amount	50.000	Range	75 - 123	Recovery	=	94.20%
90) 4-bromofluorobenzene (s)	17.11	95	128163	49.81	ug/L	0.00
Spiked Amount	50.000	Range	65 - 140	Recovery	=	99.62%

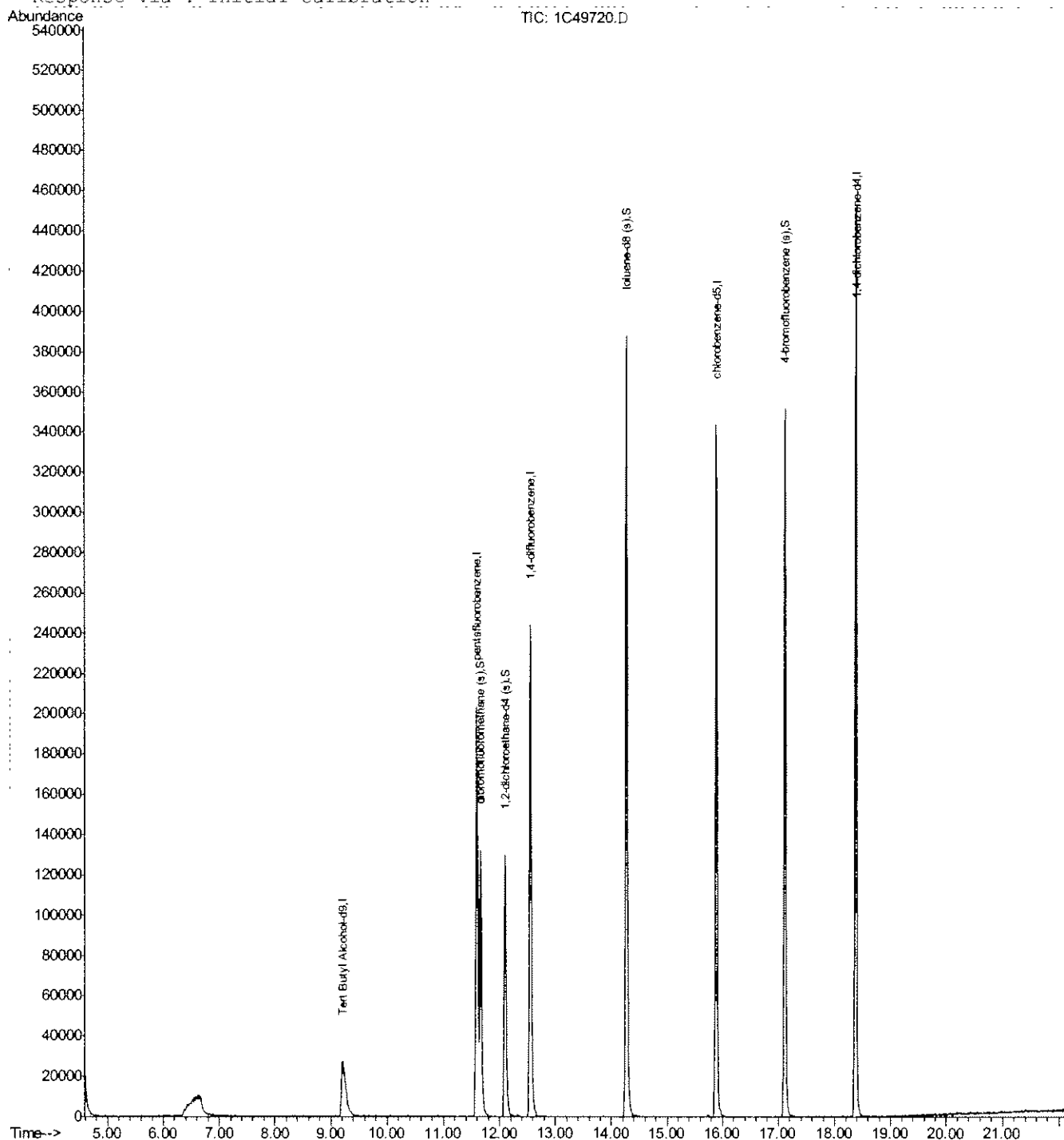
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
1C49720.D M1C2051.M Mon Mar 31 16:05:16 2008 NJVOA03

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\1C\1C2073\1C49720.D Vial: 4
Acq On : 27 Mar 2008 10:32 am Operator: MaoH
Sample : mb Inst : MS1C
Misc : MS62242,1C2073,5,,100,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 16:05 2008 Quant Results File: M1C2051.RES

```
Method       : C:\MSDCHEM\1\METHODS\M1C2051.M (RTE Integrator)
Title        : SW-846 Method 8260B
Last Update   : Thu Mar 13 17:13:49 2008
Response via  : Initial Calibration
```



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vg5270\
Data File : g108725.d
Acq On : 27 Mar 2008 11:10 am
Operator : SCOTTM
Sample : MB1
Misc : MS62480,VG5270,,,,,1,(disp. #14 3/27/08)
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 27 16:46:21 2008
Quant Method : C:\HPCHEM\1\METHODS\MG5266.M
Quant Title : SW-846 Method 8260B
QLast Update : Wed Mar 26 17:04:19 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	5.835	65	101512	500.00	PPb	-0.02
5) pentafluorobenzene	9.595	168	413021	50.00	PPb	0.00
46) 1,4-difluorobenzene	11.602	114	468388	50.00	PPb	0.00
75) chlorobenzene-d5	17.791	117	368359	50.00	PPb	-0.02
89) 1,4-dichlorobenzene-d4	22.235	152	202664	50.00	PPb	0.00

System Monitoring Compounds

44) dibromofluoromethane (s)	9.857	113	242022	43.56	PPb	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.12%
45) 1,2-dichloroethane-d4 (s)	10.818	65	149307	39.28	PPb	0.00
Spiked Amount	50.000	Range	61 - 133	Recovery	=	78.56%
74) toluene-d8 (s)	14.764	98	442986	48.39	PPb	0.00
Spiked Amount	50.000	Range	75 - 123	Recovery	=	96.78%
90) 4-bromofluorobenzene (s)	20.084	95	236883	45.44	PPb	-0.02
Spiked Amount	50.000	Range	65 - 142	Recovery	=	90.88%

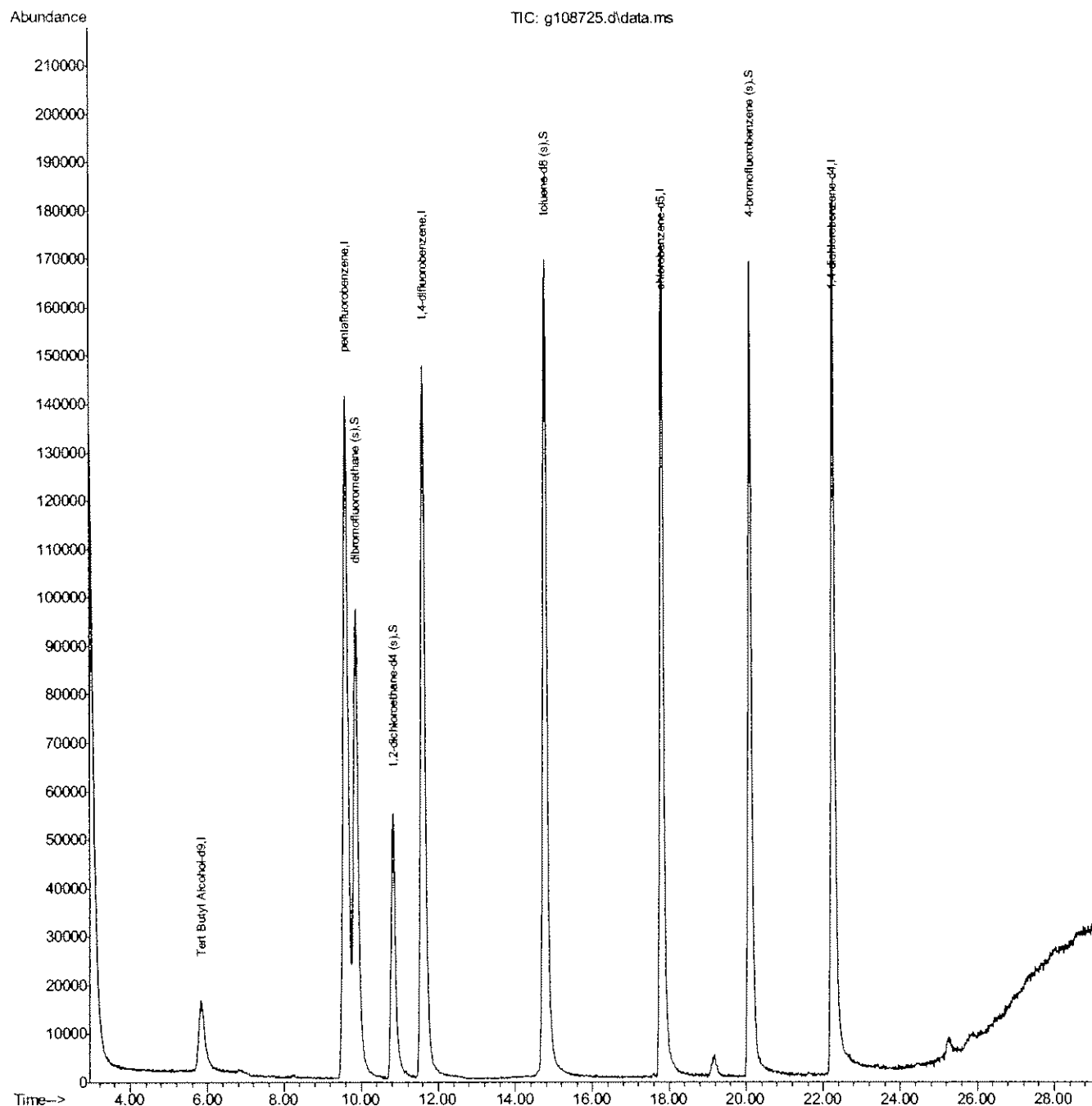
Target Compounds	Qvalue
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\vg5270\
Data File : g108725.d
Acq On : 27 Mar 2008 11:10 am
Operator : SCOTTM
Sample : MB1
Misc : MS62480, VG5270,,,,,1, (disp. #14 3/27/08)
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 27 16:46:21 2008
Quant Method : C:\HPCHEM\1\METHODS\MG5266.M
Quant Title : SW-846 Method 8260B
QLast Update : Wed Mar 26 17:04:19 2008
Response via : Initial Calibration





Metals Analysis

QC Data Summaries

7

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: EHTXF - Enact Houston
Project: Chevron, Perth Amboy

File ID: 1T092708M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20662

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:32	MA20663-STD1	1		STDA
09:38	MA20663-STD2	1		STDB
09:45	MA20663-STD3	1		STDC
09:51	MA20663-STD4	1		STDD
09:57	MA20663-STD5	1		STDE
10:04	MA20663-STD6	1		STDF
10:10	MA20663-STD7	1		STDG
10:16	MA20663-STD8	1		STDH
10:22	MA20663-STD9	1		STDI
10:44	MA20663-ICCV1	1		
10:51	MA20663-HSTD1	1		
10:58	MA20663-CRIB1	1		
11:04	MA20663-CR1A1	1		
11:10	MA20663-ICV1	1		
11:17	MA20663-ICB1	1		
11:23	MA20663-ICCV2	1		
11:30	MA20663-CCB1	1		
11:38	MA20663-ICSA1	1		
11:44	MA20663-ICSA1	1		
11:50	MA20663-CCV1	1		
11:57	MA20663-CCB2	1		
12:11	ZZZZZZ	1		
12:17	ZZZZZZ	3		
12:23	ZZZZZZ	1		
12:29	MP42999-MB1	1		
12:35	MP42999-B1	1		
12:43	MP42999-S1	1		
12:47	MP42999-S2	1		
12:54	J85520-1	1		(sample used for QC only; not part of login J85904)
13:00	MP42999-SD1	5		
13:06	MP42998-MB1	1		
13:12	MA20663-CCV2	1		
13:19	MA20663-CCB3	1		

7.1
7

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: SH2XF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT03Z708M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20663

Time	Sample Description	Dilution PS Factor	Recov	Comments
13:25	MP42998-S1	1		
13:31	MP42998-S1	1		
13:27	MP42998-S2	1		
13:43	J86330-1	1		(sample used for QC only; not part of login J85904)
13:54	MP42998-S10	5		
14:00	ZZZZZZ	1		
14:07	ZZZZZZ	1		
14:13	ZZZZZZ	1		Zn Carryover.
14:23	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:35	MA20663-CCV3	1		
14:42	MA20663-CCB4	1		
14:49	ZZZZZZ	1		
14:56	ZZZZZZ	1		
15:02	MP42965-S1	1		
15:08	MP42965-S2	1		
15:14	J85917-1F	1		(sample used for QC only; not part of login J85904)
15:20	MP42965-SD1	5		
15:26	ZZZZZZ	1		
15:35	ZZZZZZ	1		
15:41	ZZZZZZ	2		
15:47	ZZZZZZ	1		
15:54	MA20663-CCV4	1		
16:00	MA20663-CCB5	1		
16:40	ZZZZZZ	3		
16:47	ZZZZZZ	1		
16:59	MA20663-CRIB2	1		
17:05	MA20663-ICSA2	1		
17:12	MA20663-ICSAE2	1		
17:18	MA20663-CCV5	1		
17:24	MA20663-CCB6	1		
17:31	MP43031-MB1	1		
17:38	MP43031-B1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20663

Time	Sample Description	Dilution PS Factor	Remov	Comments
17:44	MP43031-S1	1		
17:50	MP43031-S2	1		
17:56	J85742-1A	1		(sample used for QC only; not part of login J85904)
18:02	MP43031-SD1	5		
18:09	MP42996-MB2	1		
18:15	MP42996-LC1	1		
18:21	ZZZZZZ	1		
18:27	ZZZZZZ	1		
18:33	MA20663-CCV6	1		
18:40	MA20663-CCB7	1		
18:51	ZZZZZZ	2		
18:57	ZZZZZZ	2		
19:03	ZZZZZZ	3		
19:09	MP43029-MB1	1		
19:15	MP43029-B1	1		
19:21	MP43029-S1	1		
19:27	MP43029-S2	1		
19:33	J85287-137A	1		(sample used for QC only; not part of login J85904)
19:40	MP43029-SD1	5		
19:46	MA20663-CCV7	1		
19:52	MA20663-CCB8	1		
20:00	ZZZZZZ	1		
20:06	ZZZZZZ	1		
20:12	ZZZZZZ	1		
20:18	ZZZZZZ	1		
20:24	ZZZZZZ	1		
20:31	ZZZZZZ	1		
20:37	ZZZZZZ	1		
20:43	ZZZZZZ	1		
20:49	ZZZZZZ	1		
20:55	MA20663-CCV8	1		
21:01	MA20663-CCB9	1		
21:17	ZZZZZZ	2		

Accutest Laboratories Instrument Runlog
Inorganics Analyzes

Login Number: J85904
Account: EHTXF - Enact Houston
Project: Chevron, Perin Amboy

File ID: ZT03Z7D8M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
Run ID: MAZ0663

Time	Sample Description	Dilution Factor	PS Recov	Comments
21:23	MP43029-S1	2		Dilution not needed
21:30	MP43029-S2	2		Dilution not needed
21:36	J85287-137A	2		(sample used for QC only; not part of login J85904)
21:42	MP43029-SD1	10		Dilution not needed
21:50	MP43022-MB1	1		
21:56	MP43022-B1	1		Rerun on dilution for A5
22:02	MP43022-S1	1		tsol AC0E. Pb > HSTD
22:08	MP43022-S2	1		tsol AC0E. Pb > HSTD
22:14	MA20663-CCV9	1		
22:21	MA20663-CCB10	1		
22:27	J86226-1	1		(sample used for QC only; not part of login J85904)
22:33	MP43022-SOL	5		tsol AC0E. Pb > HSTD
22:39	ZZZZZZ	1		
22:46	ZZZZZZ	1		
22:52	ZZZZZZ	1		
22:58	ZZZZZZ	1		
23:04	ZZZZZZ	1		
23:10	ZZZZZZ	1		
23:16	ZZZZZZ	1		
23:22	MA20663-CCV10	1		
23:29	MA20663-CCB11	1		
23:47	MA20663-CRIB3	1		
23:53	MA20663-YC5A2	1		
00:00	MA20663-FC5AB3	1		
00:06	MA20663-CCV11	1		
00:12	MA20663-CCB12	1		
00:19	ZZZZZZ	1		
00:25	ZZZZZZ	1		
00:31	ZZZZZZ	1		
00:37	ZZZZZZ	1		
00:43	ZZZZZZ	1		
00:49	ZZZZZZ	1		
00:55	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyser

Login Number: J85904
Account: ESTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6015B
Run ID: MA20663

Time	Sample Description	Dilution PS Factor	Recov	Comments
01:01	ZZZZZZ	1		
01:08	ZZZZZZ	1		
01:14	MA20663-CCV12	1		
01:20	MA20663-CCB13	1		
01:26	ZZZZZZ	1		
01:33	ZZZZZZ	1		
01:41	MP43023-MB1	1		
01:47	MP43023-B1	1		AS > HSTD
01:53	MP43023-S1	1		%sol ACOE
01:59	MP43023-S2	1		%sol ACOE
02:05	J86226-Z1	1		(sample used for QC only; not part of login J85904)
02:11	MP43023-SB1	5		%sol ACOE
02:18	ZZZZZZ	1		
02:24	MA20663-CCV13	1		
02:30	MA20663-CCB14	1		
02:36	ZZZZZZ	1		
02:43	ZZZZZZ	1		
02:49	ZZZZZZ	1		
02:55	ZZZZZZ	1		
03:01	ZZZZZZ	1		
03:07	ZZZZZZ	1		
03:13	ZZZZZZ	1		
03:19	ZZZZZZ	1		
03:26	ZZZZZZ	1		
03:32	ZZZZZZ	1		
03:38	MA20663-CCV14	1		
03:44	MA20663-CCB15	1		
03:51	ZZZZZZ	1		
03:57	ZZZZZZ	1		
04:03	ZZZZZZ	1		
04:09	ZZZZZZ	1		
04:15	ZZZZZZ	1		
04:21	ZZZZZZ	1		

7.1
7

Accutest Laboratories Instrument Runlog
Inorganics Analyzes

Login Number: J85904
Account: EHTXF - Entart Houston
Project: Chevron, Perth Amboy

File ID: 1T022708M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010b
Run ID: MA20660

Time	Sample Description	Dilution PS Factor	Recov	Comments
04:27	ZZZZZZ	1		
04:34	ZZZZZZ	1		
04:40	MA20663-CCV15	1		
04:46	MA20663-CCB16	1		
04:52	ZZZZZZ	1		
04:59	ZZZZZZ	1		
05:05	ZZZZZZ	1		
05:11	ZZZZZZ	1		
05:17	ZZZZZZ	1		
05:23	ZZZZZZ	1		
05:29	ZZZZZZ	1		
05:35	ZZZZZZ	1		
05:42	J85904-1A	1		CCB out
05:48	J85904-2A	1		CCB out
-----> Last reportable sample/pref for job J85904				
05:54	MA20663-CCV16	1		
06:00	MA20663-CCB17	1		
06:07	MP43030-MB1	1		CCV out
06:13	MP43030-B1	1		CCV out
06:19	MP43030-S1	1		CCV out
06:25	MP43030-S2	1		CCV out
06:31	J85287-16A	1		(sample used for QC only; not part of login J85904)
06:37	MP43030-SD1	5		CCV out
06:43	ZZZZZZ	2		
06:50	ZZZZZZ	2		
06:59	MP43022-SD1	5		sol CCV out for Pb
07:05	MA20663-CCV17	1		
07:11	MA20663-CCB18	1		
07:40	MA20663-CR1B4	1		
07:46	MA20663-1CSA4	1		
07:52	MA20663-1CSAB4	1		
07:59	MA20663-CCV18	1		
08:05	MA20663-CCB19	1		
-----> Last reportable CCB for job J85904				
08:11	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

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INTERNAL STANDARD SUMMARY

Login Number: J85904
 Account: EHTXF - Entact Houston
 Project: Chevron, Perth Amboy

File ID: 1T03Z708M1.JAI Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
 Analyst: ND Run ID: MA20663
 Parameters: Pb

Time	Sample Description	Istd#1
09:32	MA20663-STD1	71638 R
09:38	MA20663-STD2	72208
09:45	MA20663-STD3	71983
09:51	MA20663-STD4	72489
09:57	MA20663-STD5	72380
10:04	MA20663-STD6	71221
10:10	MA20663-STD7	70741
10:16	MA20663-STD8	70125
10:22	MA20663-STD9	69967
10:44	MA20663-ICCV1	70544
10:51	MA20663-HSTD1	69691
10:58	MA20663-CR1B1	71294
11:04	MA20663-CR1A1	70893
11:16	MA20663-ICV1	70456
11:17	MA20663-ICB1	70972
11:23	MA20663-ICCV2	69284
11:30	MA20663-CCB1	70910
11:38	MA20663-ICSA1	65336
11:44	MA20663-ICSA1	65369
11:50	MA20663-CCV1	68305
11:57	MA20663-CCB2	69501
12:11	ZZZZZZ	70848
12:17	ZZZZZZ	69855
12:23	ZZZZZZ	89626 !
12:29	MP42999-NB1	67477
12:35	MP42999-B1	67113
12:41	MP42999-S1	66949
12:47	MP42999-S2	66997
12:54	J85520-1	66978
13:00	MP42999-S01	68763
13:06	MP42998-NB1	66816
13:12	MA20663-CCV2	67547
13:19	MA20663-CCB3	68835

7.1.1
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INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/27/06 Methods: EPA 200.7, SW846 6010B
Run ID: MA20662

Time	Sample Description	Istd#1
12:25	MP42998-B1	66529
13:31	MP42998-S1	66411
13:57	MP42998-S2	66362
13:42	J86320-1	66225
13:54	MP42998-SD1	68017
14:00	ZZZZZZ	64584
14:07	ZZZZZZ	66069
14:13	ZZZZZZ	68286
14:23	ZZZZZZ	68203
14:29	ZZZZZZ	68184
14:35	MA20663-CCV3	67693
14:42	MA20663-CCB4	69185
14:49	ZZZZZZ	69140
14:56	ZZZZZZ	68257
15:02	MP42965-S1	68871
15:08	MP42965-S2	69387
15:14	J85917-1F	70092
15:20	MP42965-SD1	70087
15:26	ZZZZZZ	69734
15:35	ZZZZZZ	66696
15:41	ZZZZZZ	67989
15:47	ZZZZZZ	69612
15:54	MA20663-CCV4	67999
16:00	MA20663-CCB5	68933
16:40	ZZZZZZ	68961
16:47	ZZZZZZ	68584
16:59	MA20663-CRFBZ	68756
17:05	MA20663-LCSA2	65029
17:12	MA20663-LCSAB2	64279
17:18	MA20663-CCV5	67276
17:24	MA20663-CCB6	68137
17:31	MP43021-MB1	65609
17:38	MP43021-B1	65953

INTERNAL STANDARD SUMMARY

Logix Number: J85904
Account: EHTXF - Entart Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT
Analyst: NS
Parameter: Pb

Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20663

Time	Sample Description	Istd#1
17:44	MP43031-S1	66360
17:50	MP43031-S2	66238
17:56	J85743-1A	66258
18:02	MP43031-SD1	67775
18:09	MP42996-MB2	65795
18:15	MP42996-LC1	67958
18:21	ZZZZZZ	66450
18:27	ZZZZZZ	66413
18:33	MA20663-CCV6	67482
18:40	MA20663-CCB7	65903
18:51	ZZZZZZ	67856
18:57	ZZZZZZ	67157
19:03	ZZZZZZ	67681
19:09	MP43029-MB1	65902
19:15	MP43029-B1	66416
19:21	MP43029-S1	65218
19:27	MP43029-S2	65572
19:33	J85287-137A	65740
19:40	MP43029-SD1	68429
19:46	MA20663-CCV7	68477
19:52	MA20663-CCB8	70129
20:00	ZZZZZZ	67139
20:06	ZZZZZZ	67224
20:12	ZZZZZZ	67118
20:18	ZZZZZZ	67927
20:24	ZZZZZZ	67246
20:31	ZZZZZZ	67459
20:37	ZZZZZZ	68077
20:43	ZZZZZZ	67363
20:49	ZZZZZZ	67404
20:55	MA20663-CCV8	67997
21:01	MA20663-CCB9	69138
21:17	ZZZZZZ	67015

INTERNAL STANDARD SUMMARY

Logix Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010F
Run ID: MA20663

Time	Sample Description	Istd#1
21:23	MP42029-S1	66760
21:30	MP43029-S2	66148
21:36	J85287-137A	66598
21:42	MP43029-SD1	68479
21:50	MP43022-MB1	69277
21:56	MP43022-B1	68230
22:02	MP43022-S1	78046
22:08	MP43022-S2	76889
22:14	MA20663-CCV9	68590
22:21	MA20663-CCB10	70248
22:27	J86226-1	79065
22:33	MP43029-SD1	72181
22:39	ZZZZZZ	83901
22:46	ZZZZZZ	74029
22:52	ZZZZZZ	76989
22:58	ZZZZZZ	75799
23:04	ZZZZZZ	76592
23:10	ZZZZZZ	75011
23:16	ZZZZZZ	73477
23:22	MA20663-CCV10	68107
23:29	MA20663-CCB11	69617
23:47	MA20663-CRIB3	69709
23:53	MA20663-ICSA3	64587
00:00	MA20663-ICSAB3	64237
00:06	MA20663-CCV11	67764
00:12	MA20663-CCB12	69527
00:19	ZZZZZZ	74237
00:25	ZZZZZZ	81944
00:31	ZZZZZZ	73337
00:37	ZZZZZZ	77152
00:43	ZZZZZZ	75820
00:49	ZZZZZZ	75242
00:55	ZZZZZZ	75059

INTERNAL STANDARD SUMMARY

Login Number: J85904
 Account: FSTXF - Enfact Houston
 Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT
 Analyst: ND
 Parameters: Pb

Date Analyzed: 03/27/08
 Run ID: MA20663
 Methods: EPA 200.7, SW846 6010B

Time	Sample Description	Istd#1
01:01	ZZZZZZ	74576
01:08	ZZZZZZ	73447
01:14	MA20663-CCV12	68010
01:20	MA20663-CCB13	69285
01:26	ZZZZZZ	74828
01:33	ZZZZZZ	78898
01:41	MF43023-MB1	69356
01:47	MF43023-B1	68196
01:53	MF43023-S1	76944
01:59	MF43023-S2	75563
02:05	J86226-21	78105
02:11	MF43023-SD1	70852
02:18	ZZZZZZ	75620
02:24	MA20663-CCV13	68225
02:30	MA20663-CCB14	69239
02:36	ZZZZZZ	74751
02:43	ZZZZZZ	72646
02:49	ZZZZZZ	72398
02:55	ZZZZZZ	78222
03:01	ZZZZZZ	74577
03:07	ZZZZZZ	77772
03:13	ZZZZZZ	75656
03:19	ZZZZZZ	71105
03:26	ZZZZZZ	73733
03:32	ZZZZZZ	71076
03:38	MA20663-CCV14	67662
03:44	MA20663-CCB15	68829
03:51	ZZZZZZ	74339
03:57	ZZZZZZ	77186
04:03	ZZZZZZ	78277
04:09	ZZZZZZ	74998
04:15	ZZZZZZ	72953
04:21	ZZZZZZ	73867

7.1.1
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INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: PT032708M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20663

Time	Sample Description	Istd#1
04:27	ZZZZZZ	75309
04:34	ZZZZZZ	73367
04:40	MA20663-CCV15	67511
04:46	MA20663-CCB16	68142
04:52	ZZZZZZ	65860
04:59	ZZZZZZ	66262
05:05	ZZZZZZ	66119
05:11	ZZZZZZ	64771
05:17	ZZZZZZ	66588
05:23	ZZZZZZ	66629
05:29	ZZZZZZ	67363
05:35	ZZZZZZ	68700
05:42	J85904-1A	67296
05:48	J85904-2A	66745
05:54	MA20663-CCV16	68118
06:00	MA20663-CCB17	69622
06:07	MP43030-MB1	70677
06:13	MP43030-B1	70698
06:19	MP43030-S1	68960
06:25	MP43030-S2	69191
06:31	J85287-16A	69467
06:37	MP43030-SD1	69057
06:43	ZZZZZZ	72568
06:50	ZZZZZZ	71996
06:59	MP43022-SD1	71382
07:05	MA20663-CCV17	68034
07:11	MA20663-CCB18	69750
07:40	MA20663-CR1B4	69118
07:46	MA20663-ICSA4	64612
07:52	MA20663-ICSAB4	64707
07:59	MA20663-CCV18	67737
08:05	MA20663-CCB19	69466
08:11	ZZZZZZ	36936 !

P = Reference for ISTD limits. ! = Outside limits.

INTERNAL STANDARD SUMMARY

Login Number: J85904
 Account: EHTXF - Entact Houston
 Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 60105
 Analyst: ND Run ID: MA20663
 Parameters: Pb

Sample		
Time	Description	Istd#1

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium	60-125 %

7.1.1
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BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: BHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT
QC Limits: result < RL

Date Analyzed: 03/27/08
Run ID: MA20663

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:			11:17		11:30		11:57		13:19	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	PL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26								
Antimony	6.0	5.3								
Arsenic	8.0	4.2	anr							
Barium	240	.3	anr							
Beryllium	1.0	.2								
Cadmium	4.0	.4	acr							
Calcium	5000	85								
Chromium	10	.9	anr							
Cobalt	50	1.1								
Copper	25	1.3								
Iron	100	8.3	anr							
Lead	3.0	2.7	1.3	<3.0	-1.0	<3.0	0.98	<3.0	1.5	<500
Magnesium	5000	24	anr							
Manganese	15	.4	anr							
Molybdenum	10	2.2								
Nickel	40	1.7	anr							
Palladium	10	5.8								
Potassium	10000	66								
Selenium	10	3.9	anr							
Silicon	200	6.6								
Silver	10	1.5	anr							
Sodium	5000	480								
Thallium	10	5	anr							
Tin	10	2.7								
Vanadium	50	1.6								
Zinc	20	4.2	acr							

(*) Outside of QC limits
(anr) Analyte not requested

7.1.2

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BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entace Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT
QC Limits: result < RL

Date Analyzed: 03/27/08
Run ID: MA20663

Methods: EPA 200.7, SW846 60105
Units: ug/l

Metal	Time:		14:42		16:00		17:24		18:40	
	Sample ID:		CCB4		CCB5		CCB6		CCB7	
	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26								
Antimony	6.0	5.3								
Arsenic	8.0	4.2	anr							
Barium	200	.3	anr							
Beryllium	1.0	.2								
Cadmium	4.0	.4	anr							
Calcium	1500	85								
Chromium	10	.9	anr							
Cobalt	50	1.1								
Copper	25	1.3								
Iron	100	8.3	anr							
Lead	3.0	2.7	0.95	<500	1.9	<3.0	0.92	<3.0	2.4	<3.0
Magnesium	5000	24	anr							
Manganese	15	.4	anr							
Molybdenum	10	1.2								
Nickel	40	1.7	anr							
Palladium	10	5.8								
Potassium	10000	66								
Selenium	10	3.9	anr							
Silicon	200	6.6								
Silver	10	1.5	anr							
Sodium	5000	480								
Thallium	10	5	anr							
Tin	10	2.7								
Vanadium	50	1.6								
Zinc	20	4.2	anr							

(*) Outside of QC limits
(anr) Analyte not requested

7.1.2

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BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entest Houston
Project: Chevron, Perth Amboy

File ID: 1T032708M1.DAT
QC Limits: result < RL

Date Analyzed: 02/27/08
Run ID: MA20663

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time: Sample ID:			19:52 CCB8	21:01 CCB9	22:21 CCB10	23:29 CCB11				
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26								
Antimony	6.0	5.3								
Arsenic	8.0	4.2	anr							
Barium	200	.3	anr							
Beryllium	1.0	.2								
Cadmium	4.0	.4	anr							
Calcium	5000	85								
Chromium	10	.9	anr							
Cobalt	50	1.1								
Copper	25	1.3								
Iron	160	8.3	anr							
Lead	3.0	2.7	2.0	<3.0	<1.5	<3.0	0.85	<3.0	3.3	* (a)
Magnesium	5000	24	anr							
Manganese	15	.4	anr							
Molybdenum	10	1.2								
Nickel	40	1.7	anr							
Palladium	10	5.8								
Potassium	10000	66								
Selenium	10	3.9	anr							
Silicon	200	6.6								
Silver	10	1.5	anr							
Sodium	5000	480								
Thallium	10	5	anr							
Tin	10	2.7								
Vanadium	50	1.6								
Zinc	20	4.2	anr							

(*) Outside of QC limits

(anr) Analyte not requested

(a) Within RDL limits for TCLP leachates and soils and less than 3 times the IDL for this element. Only TCLP and soil samples reported for this element in the area bracketed by this QC.

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BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File 10: 1703Z708M1.DAT Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
QC Limits: result < RL Run ID: MA20663 Units: ug/l

Time:			00:12			01:20			02:30			03:44
Sample ID:			CCB12			CCB13			CCB14			CCB15
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26										
Antimony	6.0	5.3										
Arsenic	8.0	4.2	anr									
Barium	200	.3	anr									
Beryllium	1.0	.2										
Cadmium	4.0	.4	anr									
Calcium	5000	85										
Chromium	10	.9	anr									
Cobalt	50	1.1										
Copper	25	1.3										
Iron	100	8.3	anr									
Lead	3.0	2.7	0.53	<3.0	1.4	<3.0	1.9	<3.0	1.1	<3.0		
Magnesium	5000	24	anr									
Manganese	15	.4	anr									
Molybdenum	10	1.2										
Nickel	40	1.7	anr									
Palladium	10	5.8										
Potassium	10000	66										
Selenium	10	5.5	anr									
Silicon	200	6.6										
Silver	10	1.5	anr									
Sodium	5000	480										
Thallium	10	5	anr									
Tin	10	2.7										
Vanadium	50	1.6										
Zinc	20	4.2	anr									

(*1 Outside of QC limits
(anr) Analyte not requested

7.1.2

7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT03270841.DAT
QC limits: result < RL

Date Analyzed: 03/27/08
Run ID: HAZ0663

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time: Sample ID:			04:46 CCB16	06:00 CCB17		07:11 CCB18		08:05 CCB19		
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26								
Antimony	6.0	5.3								
Arsenic	8.0	4.2	anr							
Barium	200	.3	anr							
Beryllium	1.0	.2								
Cadmium	4.0	.4	anr							
Calcium	5000	85								
Chromium	10	.9	anr							
Cobalt	50	1.1								
Copper	25	1.3								
Iron	100	8.3	anr							
Lead	3.0	2.7	2.5	<3.0	2S2	* (a)	153	* (a)	1.1	<3.0
Magnesium	5000	24	anr							
Manganese	15	.4	anr							
Molybdenum	10	1.2								
Nickel	40	1.7	anr							
Palladium	10	5.8								
Potassium	10000	66								
Selenium	10	3.9	anr							
Silicon	200	6.6								
Silver	10	1.5	anr							
Sodium	5000	480								
Thallium	10	5	anr							
Tin	10	2.7								
Vanadium	50	1.6								
Zinc	20	4.2	anr							

(*) Outside of QC limits

(anr) Analyte not requested

(a) No samples reported for this element in the area bracketed by this QC.

7.1.2

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Enclact Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20663 Units: ug/l

Time:	11:10			11:50			12:12		
Sample ID:	ICV	ICV1	CCV	CCV1	CCV	CCV2			
MetaJ	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec

Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	anr								
Lead	1000	1000	100.0	2000	1980	99.0	2000	2090	104.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Thallium	anr								
Tin									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

7.1.3

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20663 Units: ug/l

Time:	14:35			15:54			17:18		
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec

Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	anr								
Lead	2000	2120	106.0	2000	2080	104.0	2000	2090	104.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Thallium	anr								
Tin									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

7.1.3

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: JT032708M1.DAT Date Analyzed: 03/27/78 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20663 Units: ug/l

Time:		18:32		19:46		20:55	
Sample ID:		CCV6	CCV	CCV7	CCV	CCV8	
Metal	True	Results	% Rec	True	Results	% Rec	True
		Results	% Rec		Results	% Rec	Results

Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	anr								
Lead	2000	2100	105.0	2000	2090	104.5	2000	2090	104.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Thallium	anr								
Tin									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

7.13
7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EMTX - Entact Houston
Project: Chevron, Parth Amboy

File ID: IT032708M1.DAT Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20663 Units: ug/l

Time:	22:24	23:22	00:06
Sample ID:	CCV	CCV9	CCV10
Metal	True	Results % Rec	True

Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper									
Iron	anr								
Lead	2000	2100	105.0	2000	2070	103.5	2000	2060	103.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Thallium	anr								
Tin									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

7.1.3
7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT Date Analyzed: 03/27/08 Methods: EPA 208.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20863 Units: ug/l

Time:	01:14	02:24	03:38
Sample ID:	CCV12	CCV13	CCV14
Metal	True	True	True
	Results % Rec	Results % Rec	Results % Rec

Aluminum

Antimony

Arsenic anr

Barium anr

Beryllium

Cadmium anr

Calcium

Chromium anr

Cobalt

Copper

Iron anr

Lead 2000 2010 100.5 2000 2040 100.5 2000 2040 102.0

Magnesium anr

Manganese anr

Molybdenum

Nickel anr

Palladium

Potassium

Selenium anr

Silicon

Silver anr

Sodium

Thallium anr

Tin

Vanadium

Zinc anr

(*) Outside of QC limits
(anr) Analyte not requested

7.1.3

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Enlact Houston
Project: Chevron, Perth Amboy

File ID: IT032708ML.DAT Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20663 Units: ug/l

Time:	04:40	05:54	07:55
Sample ID:	CCV15	CCV16	CCV17
Metal	True	True	True
	Results	Results	Results
	% Rec	% Rec	% Rec

Aluminum										
Antimony										
Arsenic	anr									
Barium	anr									
Beryllium										
Cadmium	anr									
Calcium										
Chromium	anr									
Cobalt										
Copper										
Iron	anr									
Lead	2000	2060	105.0	2000	2090	104.5	2000	2220	111.0*(a)	
Magnesium	anr									
Manganese	anr									
Molybdenum										
Nickel	anr									
Palladium										
Potassium										
Selenium	anr									
Silicon										
Silver	anr									
Sodium										
Thallium	anr									
Tin										
Vanadium										
Zinc	anr									

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element in the area bracketed by this QC.

7.1.3
7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entac Houston
Project: Chevron, Perth Amboy

File ID: LT032709M1.DAT Date Analyzed: 03/27/08 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20663 Units: ug/l

Time:	07:59
Sample ID:	CCV CCV18
Metal	True Results % Rec

Aluminum

Antimony

Arsenic anr

Barium anr

Beryllium

Cadmium anr

Calcium

Chromium anr

Cobalt

Copper

Iron anr

Lead 2000 2070 103.5

Magnesium anr

Manganese anr

Molybdenum

Nickel anr

Palladium

Potassium

Selenium anr

Silicon

Silver anr

Sodium

Thallium anr

Tin

Vanadium

Zinc anr

(*) Outside of QC limits
(anr) Analyte not requested

7.1.3
7

HIGH STANDARD CHECK SUMMARY

Login Number: J85904
 Account: EHTXF - Enact Houston
 Project: Chevron, Perth Amboy

File ID: 1T632708M1.DAT
 QC Limits: 95 to 105 % Recovery

Date Analyzed: 03/27/08
 Run ID: MA20663

Methods: EPA 200.7, SW846 6010B
 Units: ug/l

Time:	10:51
Sample ID: HSTD	HSTD1
Metals True	Results & Rec

Aluminum
 Antimony
 Arsenic anr
 Barium anr
 Beryllium
 Cadmium anr
 Calcium
 Chromium anr
 Cobalt
 Copper
 Iron anr
 Lead 4000 3950 98.8
 Magnesium anr
 Manganese anr
 Molybdenum
 Nickel anr
 Palladium
 Potassium
 Selenium anr
 Silicon
 Silver anr
 Sodium
 Thallium anr
 Tin
 Vanadium
 Zinc anr

(*) Outside of QC limits
 (anr) Analyte not requested

7.1.4

7

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Parth Ambay

File ID: IT032708M1.DAT
QC Limits: 50 to 150 % Recovery

Date Analyzed: 03/27/08
Run ID: MA20663

Methods: EPA 200.7, SW846 60103
Units: ug/l

Time:	11:04
Sample ID:	CRF
Metal	True
CRCA	True
CRCA1	Results % Rec

Aluminum

Antimony 120 10

Arsenic 20 20

Barium 400

Beryllium 10 2.0

Cadmium 10

Calcium

Chromium 20

Cobalt 100

Copper 50

Iron

Lead 6.0 6.0

Magnesium

Manganese 30

Molybdenum 40

Nickel 80

Palladium 100

Potassium

Selenium 10 10

Silicon

Silver 20

Sodium

Thallium 20 20

Tin

Vanadium 100

Zinc 40

(*) Outside of QC limits
(anr) Analyte not requested

7.1.5

7

INITIAL LOW CALIBRATION CHECK STANDARD SUMMARY

Login Number: J85904
Account: ENTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT
QC Limits: 50 to 150 % Recovery

Date Analyzed: 03/27/08
Run ID: MA20663

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Metal	Sample ID: CRIB	Time: 10:58 CRIB1	Results	% Rec	16:59 CRIB2	Results	% Rec	23:47 CRIB3	Results	% Rec	07:40 CRIB4	Results	% Rec
Aluminum	400												
Antimony	12												
Arsenic	16												
Barium	400												
Beryllium	2.0												
Cadmium	8.0												
Calcium	5000												
Chromium	30												
Cobalt	100												
Copper	50												
Iron	200												
Lead	6.0	7.8	130.0(a)	6.2	105.0	8.6	143.3(a)	8.5	141.7(a)				
Magnesium	5000												
Manganese	30												
Molybdenum	40												
Nickel	80												
Palladium	100												
Potassium	10000												
Selenium	20												
Silicon	400												
Silver	20												
Sodium	10000												
Thallium	20												
Tin	20												
Vanadium	100												
Zinc	40												

(*) Outside of QC limits

(anr) Analyte not requested

(a) Outside of in house limits, but within reasonable method recovery limits.

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: J85904
Account: EMTX - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT037108M1.DAT
QC Limits: 80 to 120 % Recovery

Date Analyzed: 03/27/08
Run ID: MAZ0663

Methods: EPA 200.7, SW846 5010B
Units: ug/l

Time:	Sample ID:	ICSA	ICSAE	11:58	11:44	17:05	17:12			
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	500000	500000	496000	99.2	484000	96.8	484000	96.8	494000	98.8
Antimony		1000	4.8		1070	107.0	1.7		1160	116.0
Arsenic		1000	5.9		1060	106.0	7.1		1070	107.0
Barium		500	1.4		527	105.4	1.0		534	106.8
Beryllium		500	0.88		530	106.0	0.74		542	108.2
Cadmium		1000	3.5		1020	102.0	3.6		1050	105.0
Calcium	400000	400000	415000	103.8	405000	101.3	410000	102.5	416000	104.0
Chromium		500	2.5		513	102.6	1.7		525	105.0
Cobalt		500	5.2		507	101.4	2.3		521	104.2
Copper		500	11.8		521	104.2	11.6		530	106.0
Iron	200000	200000	199000	99.5	198000	99.0	192000	96.0	199000	99.5
Lead		1000	2.2		1010	101.0	-3.3		1040	104.0
Magnesium	500000	500000	534000	106.8	526000	105.2	517000	103.4	531600	106.2
Manganese		500	5.4		522	104.4	5.0		533	106.6
Molybdenum		500	1.4		506	101.2	-1.0		509	101.8
Nickel		1000	0.50		971	97.1	-0.19		993	99.3
Palladium		500	10.3		536	107.2	10.5		548	109.6
Potassium			2610		2520		2560		2610	
Selenium		1000	0.14		1040	104.0	-5.5		1090	109.0
Silicon			-210		-94		-110		-93	
Silver		1050	1.7		1090	109.0	2.2		1190	120.0
Sodium			-3400		-3600		-3200		-3500	
Thallium		1000	4.1		1010	101.0	0.74		1510	151.0
Tin			-5.2		-7.9		-6.9		-5.9	
Vanadium		500	-2.6		526	105.2	-2.9		526	105.2
Zinc		1000	-7.5		1020	102.0	-8.1		1040	104.0

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT032708M1.DAT
QC Limits: 80 to 120 % Recovery

Date Analyzed: 03/27/08
Run ID: MA20663

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:	23:53	00:00	07:46	07:52
Sample ID: ICSA	ICSAB	ICSAB3	ICSAB3	ICSAB4
Metal	True	True	Results % Rec	Results % Rec
Aluminum	500000	500000	490000 98.0	483000 97.2
Antimony		1000	7.6	1080 108.0
Arsenic		1000	7.3	1060 106.0
Barium		500	1.3	529 105.8
Beryllium		500	0.76	532 106.4
Cadmium		1000	3.6	1030 103.0
Calcium	400000	400000	410000 102.5	408000 102.0
Chromium		500	2.8	517 103.4
Cobalt		500	3.3	509 101.8
Copper		500	11.7	524 104.8
Iron	200000	200000	196000 98.0	198000 99.0
Lead		1000	0.86	1020 102.0
Magnesium	500000	500000	526000 105.2	527000 105.4
Manganese		500	5.2	524 104.8
Molybdenum		500	1.6	508 101.6
Nickel		1000	0.22	976 97.6
Palladium		500	11.1	541 108.2
Potassium			2590	2530
Selenium		1000	-2.1	1050 105.0
Silicon			-110	-93
Silver		1000	2.2	1090 109.0
Sodium			-3300	-3600
Thallium		1000	0.95	1010 101.0
Tin			-5.6	-5.8
Vanadium		500	-2.4	527 105.4
Zinc		1000	-7.5	1020 102.0

(*) Outside of QC Limits
(ahr) Analyte not requested

7.1.7
7

Accutest Laboratories Instrument Runlog
Inorganics Analyser

Login Number: J85904
Account: SHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1T033102M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/31/08 Methods: SW846 6010B
Run ID: MA20673

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:09	MA20673-STD1	1		STDA
10:16	MA20673-STD2	1		STDB
10:22	MA20673-STD3	1		STDC
10:28	MA20673-STD4	1		STDD
10:34	MA20673-STD5	1		STDE
10:41	MA20673-STD6	1		STDF
10:47	MA20673-STD7	1		STDG
10:53	MA20673-STD8	1		STDH
11:00	MA20673-STD9	1		STDI
11:17	MA20673-HSTD1	1		
11:29	MA20673-CRIB1	1		
11:35	MA20673-CR1A1	1		
11:41	MA20673-ICV1	1		
11:48	MA20673-ICB1	1		
11:54	MA20673-ICCV1	1		
12:01	MA20673-CCB1	1		
12:10	MA20673-ICSA1	1		
12:17	MA20673-ICSA1	1		
12:23	ZZZZZZ	5		
12:30	ZZZZZZ	3		
12:48	ZZZZZZ	10		
12:53	J85761-1	1		(sample used for QC only; not part of login J85904)
13:00	ZZZZZZ	1		
13:09	ZZZZZZ	1		
13:16	MA20673-CCV1	1		
13:22	MA20673-CCB2	1		
13:28	ZZZZZZ	1		
13:34	ZZZZZZ	1		
13:40	ZZZZZZ	5		
13:47	ZZZZZZ	2		
14:01	MP42998-MB3	1		
14:07	MP42998-LC7	1		
14:13	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: EMTXF - Eniatt Houston
Project: Chevron, Perth Amboy

File ID: IT033108MI.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/31/08 Methods: SM846 60103
Run ID: MA20672

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:19	ZZZZZZ	1		
14:25	ZZZZZZ	1		
14:32	ZZZZZZ	1		
14:38	MA20673-CCV2	1		
14:44	MA20673-CCB3	1		
14:50	ZZZZZZ	1		
14:56	ZZZZZZ	1		
15:01	ZZZZZZ	5		
15:13	J85287-137A	1		(sample used for QC only; not part of login J85904)
15:19	ZZZZZZ	1		
15:25	ZZZZZZ	1		
15:31	ZZZZZZ	1		
15:37	ZZZZZZ	1		
15:49	J85761-1	3		(sample used for QC only; not part of login J85904)
15:55	MA20673-CCV3	1		
16:02	MA20673-CCB4	1		
16:08	MP43031-MB2	1		
16:14	MP43031-LC1	1		
16:20	ZZZZZZ	1		
16:26	ZZZZZZ	1		
16:32	ZZZZZZ	1		
16:39	MA20673-ICSA2	1		
16:45	MA20673-ICSAB2	1		
16:52	MA20673-CCV4	1		
16:58	MA20673-CCB5	1		
17:04	ZZZZZZ	1		
17:10	MP43041-S1	3		
17:17	MP43041-S2	3		
17:23	MP43041-ED1	15		
17:29	ZZZZZZ	1		
17:35	ZZZZZZ	1		
17:41	ZZZZZZ	1		
17:47	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: EHTXF - Entac Houston
Project: Chevron, Perth Amboy

File ID: IT033102M1.DAT
Analyst: RD
Parameters: Pb

Date Analyzed: 03/31/08 Methods: 3W846 6010B
Run ID: MA20673

Time	Sample Description	Dilution Factor	PS Retov	Comments
17:53	MA20673-CCV5	1		
18:00	MA20673-CCB6	1		
18:09	J85904-1A	1		CCV out
18:15	J85904-2A	1		CCV out
18:21	MP43030-MB1	1		CCV out
18:27	MP43030-B1	1		CCV out
18:33	MP43030-S1	1		CCV out
18:39	MP43030-S2	1		CCV out
18:46	J85287-16A	1		(sample used for QC only; not part of login J85904)
18:52	MP43030-SB1	5		CCV out
18:58	ZZZZZZ	5		
19:04	ZZZZZZ	10		
19:10	MA20673-CCV6	1		
19:16	MA20673-CCB7	1		
19:25	MA20673-CCV7	1		
19:31	MA20673-CCB8	1		
19:37	ZZZZZZ	10		
19:43	ZZZZZZ	10		
19:50	ZZZZZZ	10		
20:02	ZZZZZZ	10		
20:08	ZZZZZZ	10		
20:14	ZZZZZZ	10		
20:20	ZZZZZZ	10		
20:26	ZZZZZZ	10		
20:32	ZZZZZZ	10		
20:39	ZZZZZZ	10		
20:45	MA20673-CCV8	1		
20:51	MA20673-CCB9	1		
20:57	ZZZZZZ	10		
21:03	ZZZZZZ	10		
21:10	ZZZZZZ	10		
21:19	MP43058-MB1	1		
21:25	MP43058-B1	1		

Accutest Laboratories Instrument Runlog
Inorganic Analyses

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT033108M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/31/08 Methods: 3W846 6010B
Run ID: MA20673

Time	Sample Description	Dilution Factor	P3 Remov	Comments
21:31	MP43058-S1	1		Isol High RSD for Ag
21:37	MP43058-S2	1		Isol High RSD for Ag
21:44	J06983-2	1		(sample used for QC only; not part of login J85904)
21:50	MP43058-S01	5		Isol
21:56	ZZZZZZ	1		
22:02	MA20673-CCV9	1		
22:08	MA20673-CCB10	1		
22:15	ZZZZZZ	1		
22:21	ZZZZZZ	1		
22:27	ZZZZZZ	1		
22:33	ZZZZZZ	1		
22:39	ZZZZZZ	1		
22:45	ZZZZZZ	1		
22:52	ZZZZZZ	1		
22:58	ZZZZZZ	1		
23:04	ZZZZZZ	1		
23:10	MA20673-CCV10	1		
23:16	MA20673-CCB11	1		
23:23	MA20673-CCB13	1		
23:29	MA20673-CCB12	1		
23:35	MA20673-CCV11	1		
23:42	MA20673-CCB12	1		
23:48	ZZZZZZ	1		
23:54	ZZZZZZ	1		
00:00	ZZZZZZ	1		
00:06	ZZZZZZ	1		
00:12	ZZZZZZ	1		
00:19	ZZZZZZ	1		
00:25	ZZZZZZ	1		
00:31	ZZZZZZ	1		
00:37	ZZZZZZ	1		
00:43	MA20673-CCV12	1		
00:50	MA20673-CCB13	1		

7.2

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Accutest Laboratories Instrument Runlog
Inorganic Analyses

Login Number: J85904
Account: EHTXF - Entara Houston
Project: Chevron, Perth Amboy

File ID: IT033108M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/31/08 Method: 3W846 6010s
Run ID: MA20673

Time	Sample Description	Dilution PS Factor	Recovery	Comments
00:56	J85904-1A	1		
01:02	J85904-2A	1		Saturated
----->	Last reportable sample/prep for job J85904			
01:08	MP43030-MB1	1		
01:14	MP43030-B1	1		
01:21	MP43030-S1	1		
01:27	MP43030-S2	1		
01:33	J85287-16A	1		(sample used for QC only; not part of login J85904)
01:39	MP43030-SP1	5		
01:45	ZZZZZZ	5		
01:51	ZZZZZZ	10		
01:57	MA20673-CCV13	1		
02:04	MA20673-CCB14	1		
02:10	MA20673-1CSA4	1		
02:16	MA20673-1CSAB4	1		
02:23	MA20673-CCV14	1		
02:29	MA20673-CCB15	1		
----->	Last reportable CCB for job J85904			
	Refer to raw data for calibration curve and standards.			

7.2

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INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: SHTXF - Estact Houston
Project: Chevron, Perth Amboy

File ID: IT033108M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/31/08 Methods: SW846 6010B
Run ID: MA20673

Time	Sample Description	Istd#1
10:09	MA20673-STD1	70028 R
10:16	MA20673-STD2	69870
10:22	MA20673-STD3	70435
10:28	MA20673-STD4	69777
10:34	MA20673-STD5	69823
10:41	MA20673-STD6	68812
10:47	MA20673-STD7	68200
10:53	MA20673-STD8	67411
11:00	MA20673-STD9	67256
11:17	MA20673-BSTD1	67688
11:29	MA20673-CRIB1	69184
11:35	MA20673-CRIA1	69372
11:41	MA20673-ICV1	68767
11:48	MA20673-JCB1	69127
11:54	MA20673-ICCV1	67743
12:01	MA20673-CCB1	69203
12:10	MA20673-ICSA1	64529
12:17	MA20673-ICSAB1	65069
12:23	ZZZZZZ	68416
12:30	ZZZZZZ	71224
12:48	ZZZZZZ	69460
12:53	J85761-1	71569
13:00	ZZZZZZ	70758
13:09	ZZZZZZ	70028
13:16	MA20673-CCV1	68939
13:22	MA20673-CCB2	69809
13:28	ZZZZZZ	72696
13:34	ZZZZZZ	70281
13:40	ZZZZZZ	68156
13:47	ZZZZZZ	70946
14:01	MP42998-MB3	65396
14:07	MP42998-LC2	68306
14:13	ZZZZZZ	66842

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entant Houston
Project: Chevron, Perth Amboy

File ID: LT033108M1.DAT
Analyst: NE
Parameter: Pb

Date Analyzed: 03/31/08 Methods: SW846 6010E
Run ID: MA20673

Time	Sample Description	Istd#1
14:19	ZZZZZZ	66465
14:25	ZZZZZZ	66178
14:32	ZZZZZZ	64972
14:38	MA20673-CCV2	66676
14:44	MA20673-CCB3	67819
14:50	ZZZZZZ	65836
14:56	ZZZZZZ	65426
15:01	ZZZZZZ	66029
15:13	J85287-137A	64685
15:19	ZZZZZZ	65378
15:25	ZZZZZZ	65375
15:31	ZZZZZZ	65679
15:37	ZZZZZZ	65785
15:49	J85761-1	68044
15:55	MA20673-CCV3	66480
16:02	MA20673-CCB4	68423
16:08	MP43031-MB2	66350
16:14	MP43031-LC1	67584
16:20	ZZZZZZ	67109
16:26	ZZZZZZ	67307
16:32	ZZZZZZ	71314
16:39	MA20673-1CSA2	65150
16:45	MA20673-IESAB2	65909
16:52	MA20673-CCV4	70343
16:58	MA20673-CCB5	71367
17:04	ZZZZZZ	70806
17:10	MP43041-SJ	71663
17:17	MP43041-S2	71817
17:23	MP43041-SD1	71753
17:29	ZZZZZZ	100095
17:35	ZZZZZZ	69976
17:41	ZZZZZZ	70326
17:47	ZZZZZZ	72076

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT033108M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/31/08 Methods: SW846 6010B
Run ID: MA20673

Time	Sample Description	Istd#1
17:52	MA20673-CCV5	70724
18:00	MA20673-CCB6	72297
18:09	J85904-1A	71592
18:15	J85904-2A	71177
18:21	MP43030-MB1	72943
18:27	MP43030-B1	75660
18:33	MP43030-S1	74130
18:39	MP43030-S2	73598
18:46	J85287-16A	73267
18:52	MP43030-SD1	73206
18:58	ZZZZZZ	99906
19:04	ZZZZZZ	70971
19:10	MA20673-CCV6	70936
19:16	MA20673-CCB7	72797
19:25	MA20673-CCV7	70191
19:31	MA20673-CCB8	71547
19:37	ZZZZZZ	69915
19:43	ZZZZZZ	70176
19:50	ZZZZZZ	70090
20:02	ZZZZZZ	70323
20:08	ZZZZZZ	70337
20:14	ZZZZZZ	70218
20:20	ZZZZZZ	70192
20:26	ZZZZZZ	69119
20:32	ZZZZZZ	70618
20:39	ZZZZZZ	70600
20:45	MA20673-CCV8	70413
20:51	MA20673-CCB9	71237
20:57	ZZZZZZ	70118
21:03	ZZZZZZ	69680
21:10	ZZZZZZ	70092
21:19	MP43058-MB1	72336
21:25	MP43058-B1	70445

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1F033108M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/31/08
Run ID: MA20673
Methods: SW846 6010B

Time	Sample Description	Intd#
21:31	MP43058-S1	75453
21:37	MP43058-S2	75999
21:44	J86983-2	76340
21:50	MP43058-SD1	71958
21:56	ZZZZZZ	74908
22:02	MA20673-CCV9	69665
22:08	MA20673-CCB10	71137
22:15	ZZZZZZ	78290
22:21	ZZZZZZ	75184
22:27	ZZZZZZ	77501
22:33	ZZZZZZ	74191
22:39	ZZZZZZ	76322
22:45	ZZZZZZ	72957
22:52	ZZZZZZ	80891
22:58	ZZZZZZ	73409
23:04	ZZZZZZ	74700
23:10	MA20673-CCV10	69746
23:16	MA20673-CCB11	71299
23:23	MA20673-ICSA3	66580
23:29	MA20673-ICSA3	66807
23:35	MA20673-CCV11	70073
23:42	MA20673-CCB12	71407
23:48	ZZZZZZ	75927
23:54	ZZZZZZ	73821
00:00	ZZZZZZ	74557
00:06	ZZZZZZ	75492
00:13	ZZZZZZ	78073
00:19	ZZZZZZ	76159
00:25	ZZZZZZ	76804
00:31	ZZZZZZ	73620
00:37	ZZZZZZ	76551
00:43	MA20673-CCV12	69968
00:50	MA20673-CCB13	71402

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT033108M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 03/31/08 Methods: SW846 6010B
Run ID: MA20673

Time	Sample Description	Istd#1
00:56	J85904-1A	67430
01:02	J85904-2A	68813
01:08	MP43030-MB1	72082
01:14	MP43030-B1	72188
01:21	MP43030-S1	70731
01:27	MP43030-S2	70862
01:33	J85287-16A	70871
01:39	MP43030-SD1	70104
01:45	ZZZZZZ	68519
01:51	ZZZZZZ	68528
01:57	MA20673-CCV13	68183
02:04	MA20673-CCB14	69628
02:10	MA20673-IC2A4	65285
02:16	MA20673-1CSAB4	65309
02:23	MA20673-CCV14	68981
02:29	MA20673-CCB15	70097

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium	60-125 %

7.2.1

7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Berth Amboy

File ID: 1T033108M1.DAT
QC Limits: result < RL

Date Analyzed: 03/31/08
Run ID: MA20673
Methods: SW846 6010B
Units: ug/l

Time: Sample ID:			11:48 ICB1			12:01 CCB1			13:22 CCB2			14:44 CCB3
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26										
Antimony	20	5.3										
Arsenic	20	4.2	anr									
Barium	200	.3	anr									
Beryllium	5.0	.2	anr									
Cadmium	5.0	.4	anr									
Calcium	5000	85										
Chromium	10	.9	anr									
Cobalt	50	1.1										
Copper	25	1.3	anr									
Iron	100	8.3										
Lead	20	2.7	-1.5	<20	1.5	<20	-1.2	<20	0.51	<20		
Magnesium	5000	24	anr									
Manganese	15	.4	anr									
Molybdenum	20	1.2										
Nickel	40	1.7	anr									
Palladium	50	5.8										
Potassium	10000	66										
Selenium	20	3.9	anr									
Silicon	200	6.6										
Silver	10	1.5	anr									
Sodium	10000	480										
Thallium	10	5	anr									
Tin	50	2.7										
Vanadium	50	1.6	anr									
Zinc	20	4.2	anr									

(*) Outside of QC limits
(anr) Analyte not requested

7.2.2

7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT033108M1.DAT
QC Limits: result < RL

Date Analyzed: 03/31/08
Run ID: MA20612
Methods: SW846 6010B
Units: ug/l

Time:			16:02		16:58		18:00		19:16	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26								
Antimony	20	5.3	anr							
Arsenic	20	4.2	anr							
Barium	200	.3	anr							
Beryllium	5.0	.2	anr							
Cadmium	5.0	.4	anr							
Calcium	5000	85								
Chromium	10	.9	anr							
Cobalt	50	1.1	anr							
Copper	25	1.3	anr							
Iron	100	8.3								
Lead	20	2.7	2.3	<20	-1.9	<20	-2.2	<20	20.1	* 1a1
Magnesium	5000	24	anr							
Manganese	15	.4	anr							
Molybdenum	20	1.2								
Nickel	40	1.7	anr							
Palladium	50	5.8								
Potassium	10000	66								
Selenium	20	3.9	anr							
Silicon	200	6.6								
Silver	10	1.5	anr							
Sodium	10000	480								
Thallium	20	5	anr							
Tin	50	2.7								
Vanadium	50	1.6	anr							
Zinc	20	4.2	anr							

(*) Outside of QC limits

(anr) Analyte not requested

(a) Within RDL limits for TCLP leachates. Only TCLP samples reported for this element in the area bracketed by this QC.

7.2.2

7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perch Amboy

File ID: IT053108M1.DAT
QC Limits: result < RL

Date Analyzed: 03/31/08
Run ID: MAZ0673

Methods: SW846 6010B
Units: ug/l

Time: Sample ID:			19:31 CCB8	20:51 CCB9		22:08 CCB10		23:16 CCB11		
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26								
Antimony	20	5.3	anr							
Arsenic	20	4.2	anr							
Barium	200	.3	anr							
Beryllium	5.0	.2	anr							
Cadmium	5.0	.4	anr							
Calcium	5000	85								
Chromium	10	.9	anr							
Cobalt	50	1.1	anr							
Copper	25	1.3	anr							
Iron	100	8.3								
Lead	20	2.7	1.3	<20	0.091	<20	-0.80	<20	-0.13	<20
Magnesium	5000	24	anr							
Manganese	15	.4	anr							
Molybdenum	20	1.2								
Nickel	40	1.7	anr							
Palladium	50	5.8								
Potassium	10000	66								
Selenium	20	3.9	anr							
Silicon	200	6.6								
Silver	10	1.5	anr							
Sodium	10000	480								
Thallium	10	5	anr							
Tin	50	2.7								
Vanadium	50	1.6	anr							
Zinc	20	4.2	anr							

(*) Outside of QC limits
(anr) Analyte not requested

7.2.2

7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT033108M1.DAT
QC Limits: result < RL

Date Analyzed: 03/21/08
Run ID: MA20671
Methods: SW846 601QB
Units: ug/l

Time: Sample ID:		23:42 CCB12		00:50 CCB13		02:04 CCB14		02:29 CCB15		
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26								
Antimony	20	5.3	anr							
Arsenic	20	4.2	anr							
Barium	200	.2	anr							
Beryllium	5.0	.2	anr							
Cadmium	5.0	.4	anr							
Calcium	5000	85								
Chromium	10	.9	anr							
Cobalt	50	1.1	anr							
Copper	25	1.3	anr							
Iron	100	2.2								
Lead	20	2.7	~0.73	<20	3.5	<20	22.0	* (a)	2.5	<20
Magnesium	5000	24	anr							
Manganese	15	.4	anr							
Molybdenum	20	1.2								
Nickel	40	1.7	anr							
Palladium	50	5.8								
Potassium	10000	66								
Selenium	20	3.9	anr							
Silicon	200	6.6								
Silver	10	1.5	anr							
Sodium	10000	480								
Thallium	10	5	anr							
Tin	50	2.7								
Vanadium	50	1.6	anr							
Zinc	20	4.2	anr							

(*) Outside of QC limits

(anr) Analyte not requested

(a) Within ADL limits for TCLP leachates. Only TCLP samples reported for this element in the area bracketed by this QC.

7.2.2

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entract Houston
Project: Chevron, Perth Amboy

File ID: 1T0J3108M1.DAT
QC Limits: 90 to 110 % Recovery

Date Analyzed: 03/31/08
Run ID: MA20673

Methods: SW846 6010B
Units: ug/l

Time:	11:41	13:16	14:38
Sample ID:	ICV	ICV1	CCV
Metal	True	Results % Rec	True
		Results % Rec	True

Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron									
Lead	1000	1050	105.0	2000	2000	100.0	2000	2040	102.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

7.2.3

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT033108M1.DAT
QC Limits: 90 to 110 % Recovery

Date Analyzed: 03/31/08
Run ID: MA20673

Methods: SW846 6010B
Units: ug/l

Time:	15:53	16:52	17:53
Sample ID:	CCV3	CCV4	CCV5
Metal	True	True	True
	Results % Rec	Results % Rec	Results % Rec

Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron									
Lead	2000	2019	100.5	2000	1880	94.0	2000	1830	91.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

7.2.3

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1T032108M1.DAT
QC Limits: 90 to 110 % Recovery

Date Analyzed: 03/31/08
Run ID: MA20673

Methods: SW846 6010B
Units: ug/l

Time:		19:10		19:25		20:45	
Sample ID:		CCV		CCV6		CCV	
Metal		True		Results % Rec		True	

Aluminum								
Antimony	anr							
Arsenic	anr							
Barium	anr							
Beryllium	anr							
Cadmium	anr							
Calcium								
Chromium	anr							
Cobalt	anr							
Copper	anr							
Iron								
Lead	2000	1790	89.5* (a)	2000	1840	92.0	2000	1890 94.5
Magnesium	anr							
Manganese	anr							
Molybdenum								
Nickel	anr							
Palladium								
Potassium								
Selenium	anr							
Silicon								
Silver	anr							
Sodium								
Thallium	anr							
Tin								
Vanadium	anr							
Zinc	anr							

(*) Outside of QC limits

(anr) Analyte not requested

(a) No samples reported for this element in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EMTXP - Entergy Houston
Project: Chevron, Perth Amboy

File ID: ET033108M1.DAT
QC limits: 90 to 110 % Recovery

Date Analyzed: 03/31/08
Run ID: MA20673

Methods: SW846 6015B
Units: ug/l

Time:	22:02	23:10	23:35
Sample ID:	CCV9	CCV10	CCV11
Metal	True	True	True
	Results	Results	Results
	% Rec	% Rec	% Rec

Aluminum

Antimony anr

Arsenic anr

Barium anr

Beryllium anr

Cadmium anr

Calcium

Chromium anr

Cobalt anr

Copper anr

Iron

Lead	2000	1930	96.5	2500	1920	96.0	2000	1900	95.0
------	------	------	------	------	------	------	------	------	------

Magnesium anr

Manganese anr

Molybdenum

Nickel anr

Palladium

Potassium

Selenium anr

Silicon

Silver anr

Sodium

Thallium anr

Tin

Vanadium anr

Zinc anr

(*) Outside of QC limits
(anr) Analyte not requested

7.2.3

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EPTX - Entact Houston
Project: Chevron, Perch Amboy

File ID: IT0331H8M1.DAT
QC Limits: 90 to 110 % Recovery

Date Analyzed: 05/31/08
Run ID: VA20673

Methods: SW846 6010B
Units: ug/l

Time:	00:43	01:57	02:23
Sample ID:	CCV	CCV12	CCV
Metal	True	Results % Rec	True
		Results % Rec	True

Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron									
Lead	2000	1920	96.0	2000	1920	96.0	2000	1900	95.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

7.2.3

7

HIGH STANDARD CHECK SUMMARY

Login Number: J85904
 Account: EHTXE - Entact Houston
 Project: Chevron, Perth Amboy

File ID: IT023108M1.DAT
 QC Limits: 95 to 105 % Recovery

Date Analyzed: 03/31/08
 Run ID: MA20673
 Methods: SW846 6010B
 Units: ug/l

Time:	11:17
Sample ID:	HSTD HSTD3
Metal	True Results % Rec

Aluminum

Antimony

Arsenic anr

Barium anr

Beryllium anr

Cadmium anr

Calcium

Chromium anr

Cobalt

Copper anr

Iron

Lead 4000 4000 100.0

Magnesium anr

Manganese anr

Molybdenum

Nickel anr

Palladium

Potassium

Selenium anr

Silicon

Silver anr

Sodium

Thallium anr

Tin

Vanadium anr

Zinc anr

(*) Outside of QC limits
 (anr) Analyte not requested

7.2.4

7

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: JTG33108M1.DAT
QC Limits: 50 to 150 % Recovery

Date Analyzed: 03/31/08
Run ID: MA20673

Methods: SW846 6010B
Units: ug/L

Time:	11:35
Sample ID: CRI	CRIAL
Metal	True
True	Results % Rec

Aluminum

Antimony 120 10

Arsenic 20 20

Barium 400

Beryllium 10 2.0 anr

Cadmium 10

Calcium

Chromium 20

Cobalt 100

Copper 50

Iron

Lead 6.0 6.0

Magnesium

Manganese 30

Molybdenum 40

Nickel 80

Palladium 100

Potassium

Selenium 10 10

Silicon

Silver 20

Sodium

Thallium 20 20

Tin

Vanadium 100

Zinc 40

(*) Outside of QC limits

(anr) Analyte not requested

7.2.5

7

INITIAL LOW CALIBRATION CHECK STANDARD SUMMARY

Login Number: J85904
Account: ZHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT03E108M1.DAT
QC Limits: 50 to 150 % Recovery

Date Analyzed: 03/21/08
Run ID: MA20673
Methods: SW846 6010B
Units: ug/L

Time:	21:29		
Sample ID:	CRIB	CRIB2	
Metal	True	Results	% Rec
Aluminum	400		
Antimony	12		
Arsenic	16		
Barium	400		
Beryllium	2.0		
Cadmium	8.0		
Calcium	5000		
Chromium	20		
Cobalt	100		
Copper	50		
Iron	200		
Lead	6.0	5.3	105.0
Magnesium	5000		
Manganese	30		
Molybdenum	40		
Nickel	80		
Palladium	100		
Potassium	10000		
Selenium	20		
Silicon	400		
Silver	20		
Sodium	10000		
Thallium	20		
Tin	20		
Vanadium	100		
Zinc	40		

(*) Outside of QC limits
(anr) Analyte not requested

7.2.6

7

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: J85904
Account: ENTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1T033408M1.DAT
QC Limits: 80 to 120 % Recovery

Date Analyzed: 03/31/08
Run ID: MA20673

Methods: SW846 6010B
Units: ug/l

Time:	12:10				12:17				16:39				16:45			
Sample 10:	ICSA	ICSA B	ICSA1		ICSA B1		ICSA2		ICSA B2							
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec			Results	% Rec		
Aluminum	500000	500000	480000	96.2	473000	94.6	473000	94.6	466000	93.2						
Antimony		1000	6.2		1040	104.0	0.51		999	99.9						
Arsenic		1000	2.2		1020	102.0	7.8		999	99.9						
Barium		500	0.99		527	105.4	1.1		522	104.4						
Beryllium		500	0.80		526	105.2	0.73		505	101.0						
Cadmium		1000	2.5		1020	102.0	3.0		976	97.6						
Calcium	400000	400000	398000	99.5	390000	97.5	384000	96.0	376000	94.0						
Chromium		500	1.9		515	103.0	1.6		507	101.4						
Cobalt		500	1.7		500	100.0	2.2		478	95.6						
Copper		500	9.3		522	104.4	10.2		520	104.0						
Iron	200000	200000	195000	97.5	195000	97.5	194000	97.0	195000	97.5						
Lead		1000	-5.0		1000	100.0	-2.2		956	95.6						
Magnesium	500000	500000	520000	104.0	515000	103.0	511000	102.2	509000	101.8						
Manganese		500	5.0		519	103.8	4.9		504	100.8						
Molybdenum		500	1.7		512	102.4	0.11		510	102.0						
Nickel		1000	-0.25		972	97.2	-0.84		952	95.2						
Palladium		500	10.2		537	107.4	7.3		522	104.4						
Potassium			2480		2340		2270		2160							
Selenium		1000	-0.53		1030	103.0	2.9		933	93.3						
Silicon			-100		-83		-110		-88							
Silver		1000	0.83		1070	107.0	0.20		1050	105.0						
Sodium			-250		-460		116		-9.9							
Thallium		1000	2.6		1010	101.0	1.3		1030	103.0						
Tin			-2.5		-2.6		-4.9		-2.1							
Vanadium		500	-1.8		503	100.6	-2.3		508	101.6						
Zinc		1000	-7.4		1000	100.0	-7.4		935	93.5						

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT033108M1.DAT
QC Limits: 80 to 120 % Recovery

Date Analyzed: 03/31/08
Run ID: MA20673

Methods: SW846 6010B
Units: ug/l

Time: Sample ID: ICSA Metal	ICSAB True	23:23 ICSAB3 Results	% Rec	23:29 ICSAB5 Results	% Rec	02:10 ICSAB4 Results	% Rec	02:16 ICSAB4 Results	% Rec	
Aluminum	500000	500000	472000	94.4	467000	93.4	477000	95.4	474000	94.8
Antimony		1000	0.94		983	98.3	2.7		990	99.0
Arsenic		1000	-0.15		988	98.8	3.1		984	98.4
Barium		500	1.2		525	105.0	1.4		532	106.4
Beryllium		500	0.74		509	101.8	0.72		513	102.6
Cadmium		1000	2.1		970	97.0	2.3		977	97.7
Calcium	400000	400000	385000	96.3	380000	95.0	387000	96.8	384000	96.0
Chromium		500	1.7		514	102.8	1.8		519	103.8
Cobalt		500	2.3		483	96.6	1.7		486	97.2
Copper		500	9.2		520	104.0	9.3		526	105.2
Iron	200000	200000	194000	97.0	195000	97.5	198000	96.5	195000	97.5
Lead		1000	-1.4		954	95.4	0.23		960	96.0
Magnesium	500000	500000	509000	101.8	509000	101.8	505000	101.0	506000	101.2
Manganese		500	5.1		509	101.8	5.2		513	102.6
Molybdenum		500	1.8		505	101.0	0.46		504	100.8
Nickel		1000	-1.5		949	94.9	0.049		952	95.2
Palladium		500	11.3		523	104.6	7.5		528	105.6
Potassium			2170		2130		2120		2070	
Selenium		1000	0.46		990	99.0	0.18		993	99.3
Silicon			-110		-88		-110		-82	
Silver		1000	0.51		1050	105.0	0.31		1060	106.0
Sodium			41.7		-330		-17		-110	
Thallium		1000	11.7		1030	103.0	1.2		1040	104.0
Tin			-1.5		-1.8		-3.2		-2.6	
Vanadium		500	-0.33		509	101.8	-2.3		509	101.8
Zinc		1000	-7.5		957	95.7	-7.4		957	95.7

(*) Outside of QC limits
(anr) Analyte not requested

7.2.7

7

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: ZHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: ITG40108M2.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/01/08 Methods: SW846 601GB
Run ID: MA20680

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:10	MA20680-STD1	1		STDA
14:16	MA20680-STD2	1		STDB
14:22	MA20680-STD3	1		STDC
14:29	MA20680-STD4	1		STDD
14:35	MA20680-STD5	1		STDE
14:41	MA20680-STD6	1		STDF
14:48	MA20680-STD7	1		STDG
14:54	MA20680-STD8	1		STDH
15:00	MA20680-STD9	1		STDI
15:13	MA20680-HSTD1	1		
15:20	MA20680-CRIB1	1		
15:26	MA20680-CRIA1	1		
15:32	MA20680-ICV1	1		
15:39	MA20680-ICB1	1		
15:46	MA20680-ICCV1	1		
15:53	MA20680-CCB1	1		
16:12	MA20680-ICSA1	1		
16:18	MA20680-ICCSAB1	1		
16:24	ZZZZZZ	1		
16:29	ZZZZZZ	10		
16:36	ZZZZZZ	1		
16:42	ZZZZZZ	1		
16:49	MA20680-CCV1	1		
16:55	MA20680-CCB2	1		
17:01	MP42998-MB4	1		
17:07	MP42998-LC2	1		
17:13	ZZZZZZ	1		
17:20	ZZZZZZ	1		
17:26	ZZZZZZ	1		
17:32	MP43061-MB1	1		
17:38	MP43061-B1	1		
17:44	MP43061-S1	1		
17:50	MP43061-S2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analytes

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Pech Amboy

File ID: IT040108HZ.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/01/08 Methods: SW846 6010B
Run ID: MAZ0680

Time	Sample Description	Dilution P5 Factor	Recdy	Comments
17:56	J85841-14R	1		(sample used for QC only; not part of login J85904)
18:03	MA20680-CCV2	1		
18:09	MA20680-CCV3	1		
18:15	MP43061-SD1	5		
18:21	ZZZZZZ	1		
18:28	ZZZZZZ	1		
18:34	ZZZZZZ	1		
18:40	ZZZZZZ	1		
18:46	ZZZZZZ	1		
18:52	ZZZZZZ	1		
18:58	MP43030-MB2	1		
19:04	MP43030-LC1	1		
19:11	MA20680-CCV3	1		
19:17	MA20680-CCB4	1		
19:23	ZZZZZZ	1		
19:29	MP43058-S1	1		
19:36	MP43058-S2	1		
19:45	MP43062-MB1	1		
19:51	MP43062-B1	1		
19:57	MP43062-LC1	1		
20:04	MP43062-S1	1		
20:09	MP43062-S2	1		
20:16	J85451-11R	1		(sample used for QC only; not part of login J85904)
20:22	MP43062-SD1	5		
20:28	MA20680-CCV4	1		
20:34	MA20680-CCB5	1		
20:40	ZZZZZZ	1		
20:47	ZZZZZZ	1		
20:53	ZZZZZZ	1		
20:59	ZZZZZZ	1		
21:05	ZZZZZZ	1		
21:11	ZZZZZZ	1		
21:17	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: ENTXF - Enclat Houston
Project: Chevron, Perth Amboy

File ID: 1T040108M2.DAT
Analyst: ND
Parameters: Fb

Date Analyzed: 04/01/08 Methods: SW846 6010B
Run ID: MA20680

Time	Sample Description	Dilution Factor	%S Recov	Comments
21:23	ZZZZZZ	1		
21:30	ZZZZZZ	1		
21:36	ZZZZZZ	1		
21:42	MA20680-CCV5	1		
21:48	MA20680-CCB6	1		
21:55	ZZZZZZ	5		
22:07	ZZZZZZ	1		
22:13	ZZZZZZ	1		
22:19	ZZZZZZ	1		
22:25	ZZZZZZ	1		
22:31	ZZZZZZ	1		
22:37	ZZZZZZ	1		
22:43	ZZZZZZ	1		
22:50	ZZZZZZ	1		
22:56	ZZZZZZ	1		
23:02	MA20680-CCV6	1		
23:08	MA20680-CCB7	1		
23:14	ZZZZZZ	10		
23:23	MP43042-MB2	1		
23:33	MP43042-B2	1		
23:48	MA20680-ICSA2	1		
23:54	MA20680-ICSAB2	1		
00:01	MA20680-CCV7	1		
00:07	MA20680-CCB8	1		
00:13	ZZZZZZ	1		
00:19	MP43042-S1	1		
00:32	MP43042-LC2	1		
00:38	MP43042-S2	1		
00:44	J86496-L	1		(sample used for QC only; not part of login J85904)
00:51	MP43042-SD2	5		
00:57	ZZZZZZ	1		
01:03	ZZZZZZ	1		
01:09	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT040108M2.D&T
Analyst: NG
Parameters: Pb

Date Analyzed: 04/01/08 Methods: SW846 6010B
Run ID: MA20680

Time	Sample Description	Dilution PS Factor	Reccv	Comments
01:15	MA20680-CCV8	1		
01:21	MA20680-CCB9	1		
01:28	ZZZZZZ	1		
01:34	J85904-1	1		
01:40	J85904-2	50		
01:46	Last reportable sample/prep for job J85904			
01:46	ZZZZZZ	1		
01:52	ZZZZZZ	1		
01:58	ZZZZZZ	1		
02:05	ZZZZZZ	1		
02:11	ZZZZZZ	1		
02:17	ZZZZZZ	1		
02:23	ZZZZZZ	1		
02:29	MA20680-CCV9	1		
02:36	MA20680-CCB10	1		
02:42	ZZZZZZ	1		
02:48	ZZZZZZ	1		
02:54	ZZZZZZ	1		
03:00	ZZZZZZ	1		
03:06	ZZZZZZ	1		
03:13	ZZZZZZ	1		
03:22	MP43063-MB1	1		
03:28	MP43063-B1	1		
03:34	MP43063-S1	1		tsol
03:41	MP43063-S2	1		tsol
03:47	MA20680-CCV10	1		
03:53	MA20680-CCB11	1		
03:59	J86019-1	1		(sample used for QC only; not part of login J85904)
04:06	MP43063-SD1	5		tsol
04:12	ZZZZZZ	1		
04:18	ZZZZZZ	1		
04:24	ZZZZZZ	1		
04:30	ZZZZZZ	1		
04:36	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: ZHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1T040108M2.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/01/08 Methods: SW846 6010B
Run ID: MA20680

Time	Sample Description	Dilution Factor	PS Recov	Comments
04:42	ZZZZZZ	1		
04:49	ZZZZZZ	1		
04:55	ZZZZZZ	1		
05:01	MA20680-CCV11	1		
05:07	MA20680-CC812	1		
05:13	ZZZZZZ	1		
05:20	ZZZZZZ	1		
05:26	ZZZZZZ	1		
05:32	ZZZZZZ	1		
05:38	ZZZZZZ	1		
05:44	ZZZZZZ	1		
05:50	ZZZZZZ	1		
05:56	ZZZZZZ	1		
06:03	ZZZZZZ	1		
06:09	ZZZZZZ	1		
06:15	MA20680-CCV12	1		
06:21	MA20680-CCB13	2		
07:31	MA20680-1CSA3	1		
07:38	MA20680-1CSAB3	1		
07:44	MA20680-CCV13	1		
07:50	MA20680-CCB14	1		
08:24	ZZZZZZ	1		
08:34	ZZZZZZ	1		
08:40	ZZZZZZ	1		
08:46	ZZZZZZ	1		
08:51	MA20680-1CSA4	1		
08:58	MA20680-1CSAB4	1		
09:04	MA20680-CCV14	1		
09:10	MA20680-CCB15	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT040108M2.JAT
Analyst: NC
Parameters: Pb

Date Analyzed: 04/01/08 Methods: SWB46 6010B
Run ID: MA20680

Time	Sample Description	Istd#1
14:10	MA20680-STD1	69640
14:16	MA20680-STD2	69532
14:22	MA20680-STD3	69792
14:29	MA20680-STD4	69520
14:35	MA20680-STD5	68990
14:41	MA20680-STD6	68564
14:48	MA20680-STD7	67857
14:54	MA20680-STD8	67405
15:00	MA20680-STD9	67305
15:13	MA20680-HSTD1	67292
15:20	MA20680-CRIB1	68693
15:26	MA20680-CR1A1	69034
15:32	MA20680-ICV1	68883
15:39	MA20680-ICB1	69170
15:46	MA20680-ICCV1	67650
15:53	MA20680-CYB1	69262
16:12	MA20680-ICSA1	64612
16:18	MA20680-ICSAB1	64869
16:24	ZZZZZZ	69674
16:29	ZZZZZZ	67952
16:36	ZZZZZZ	68976
16:42	ZZZZZZ	66836
16:49	MA20680-CCV1	67507
16:55	MA20680-CCB2	69048
17:01	MP42998-MB4	64801
17:07	MP42998-LC3	67432
17:13	ZZZZZZ	65296
17:20	ZZZZZZ	65632
17:26	ZZZZZZ	65941
17:32	MP43061-MB1	65246
17:38	MP43061-BI	65008
17:44	MP43061-S1	64610
17:50	MP43061-S2	64674

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT0401D8M2.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/01/08 Methods: SW846 6010B
Run ID: MA20680

Time	Sample Description	Std#1
17:56	J85841-14R	64694
18:03	MA20680-CCV2	66081
18:09	MA20680-CCB3	67632
18:15	MP43061-CD1	66279
18:21	ZZZZZZ	65572
18:28	ZZZZZZ	64824
18:34	ZZZZZZ	64785
18:40	ZZZZZZ	64833
18:46	ZZZZZZ	65189
18:52	ZZZZZZ	64625
18:58	MP43030-MB2	64950
19:04	MP43020-LC1	66834
19:11	MA20680-CCV3	66082
19:17	MA20680-CCB4	67274
19:23	ZZZZZZ	68866
19:29	MP43058-G1	72263
19:36	MP43058-S2	72213
19:45	MP43062-MB1	68078
19:51	MP43062-B1	66192
19:57	MP43062-LC1	70421
20:04	MP43062-S1	68620
20:09	MP43062-S2	68935
20:16	J85451-11R	70586
20:22	MP43062-SD1	68353
20:28	MA20680-CCV4	66407
20:34	MA20680-CCB5	67892
20:40	ZZZZZZ	71302
20:47	ZZZZZZ	70920
20:53	ZZZZZZ	70294
20:59	ZZZZZZ	66048
21:05	ZZZZZZ	70150
21:11	ZZZZZZ	68991
21:17	ZZZZZZ	69264

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: BHTXF - Sntacc Houston
Project: Chevron, Perth Amboy

File ID: 1T040108M2.DAT
Analyst: ND
Parameter: Pb

Date Analyzed: 04/01/08 Methods: SW846 601DB
Run ID: MA20680

Time	Sample Description	Istd#1
21:23	ZZZZZZ	72156
21:30	ZZZ2ZZ	70585
21:36	ZZZZZZ	70172
21:42	MA20680-CCV5	66598
21:48	MA20680-CCB6	67576
21:55	ZZZZZZ	66977
22:07	ZZZZZZ	70398
22:13	ZZZZZZ	69269
22:19	ZZZZZZ	69851
22:25	ZZZZZZ	69097
22:31	ZZZZZZ	68705
22:37	ZZZZZZ	68679
22:43	ZZZZZZ	69068
22:50	ZZZZZZ	67115
22:56	ZZZZZZ	68212
23:02	MA20680-CCV6	65773
23:08	MA20680-CCB7	67276
23:14	ZZZZZZ	66891
23:23	MP43042-MB2	67377
23:33	MP43042-B2	66109
23:48	MA20680-ICSA2	62742
23:54	MA20680-ICSAB2	62568
00:01	MA20680-CCV7	66159
00:07	MA20680-CCB8	67116
00:12	ZZZZZZ	70048
00:19	MP43042-S1	67972
00:32	MP43042-LC2	70340
00:38	MP43042-S2	67686
00:44	J86496-1	69222
00:51	MP43042-SD1	67356
00:57	ZZZZZZ	68167
01:03	ZZZZZZ	68615
01:09	ZZZZZZ	69126

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: JT040108M2.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/01/08 Methods: SW846 60103
Run ID: MA20680

Time	Sample Description	Istd#1
01:15	MA20680-CCV8	67401
01:21	MA20680-CCB9	68500
01:28	ZZZZZZ	69723
01:34	J85904-1	72221
01:40	J85904-2	71210
01:46	ZZZZZZ	70347
01:52	ZZZZZZ	69825
01:58	ZZZZZZ	70237
02:05	ZZZZZZ	71383
02:11	ZZZZZZ	70190
02:17	ZZZZZZ	69341
02:23	ZZZZZZ	68010
02:29	MA20680-CCV9	68314
02:36	MA20680-CCB10	70325
02:42	ZZZZZZ	72664
02:48	ZZZZZZ	74611
02:54	ZZZZZZ	71207
03:00	ZZZZZZ	71256
03:06	ZZZZZZ	73027
03:13	ZZZZZZ	73988
03:22	MP43063-MB1	70460
03:28	MP43063-B1	68971
03:34	MP43063-S1	69980
03:41	MP43063-S2	70334
03:47	MA20680-CCV10	69012
03:53	MA20680-CCB11	70272
03:59	J86019-1	71637
04:06	MP43063-SD1	70719
04:12	ZZZZZZ	72616
04:18	ZZZZZZ	74192
04:24	ZZZZZZ	74703
04:30	ZZZZZZ	73326
04:36	ZZZZZZ	71920

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1T046108M2.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/01/08 Methods: SW846 6010B
Run ID: MA20680

Time	Sample Description	Istd#
04:42	ZZZZZZ	76086
04:49	ZZZZZZ	74115
04:55	ZZZZZZ	73719
05:01	MA20680-CCV11	70344
05:07	MA20680-CCB12	72523
05:13	ZZZZZZ	78792
05:20	ZZZZZZ	73775
05:26	ZZZZZZ	72958
05:32	ZZZZZZ	74725
05:38	ZZZZZZ	75568
05:44	ZZZZZZ	74825
05:50	ZZZZZZ	75606
05:56	ZZZZZZ	76150
06:03	ZZZZZZ	74119
06:09	ZZZZZZ	76305
06:15	MA20680-CCV12	71139
06:21	MA20680-CCB13	72296
07:31	MA20680-ICSA3	68455
07:38	MA20680-ICSA3	68085
07:44	MA20680-CCV13	71936
07:50	MA20680-CCB14	73221
08:24	ZZZZZZ	74375
08:34	ZZZZZZ	74486
08:40	ZZZZZZ	79582
08:46	ZZZZZZ	73721
08:51	MA20680-ICSA4	68198
08:58	MA20680-ICSA4	68292
09:04	MA20680-CCV14	71794
09:10	MA20680-CCB15	73007

R = Reference for 1STD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium	60-125 %

7.3.1

7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 17040308M2.DAT
QC Limits: result < RL

Date Analyzed: 04/01/03
Run ID: MA20680
Methods: SW846 6010B
Units: ug/l

Time:			15:39			15:53			16:55			18:09
Sample ID:			ICB1			CCB1			CCB2			CCB3
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26	anr									
Antimony	20	5.3	anr									
Arsenic	20	4.2	anr									
Barium	200	.3	anr									
Beryllium	5.0	.2	anr									
Cadmium	5.0	.4	anr									
Calcium	5000	85	anr									
Chromium	10	.9	anr									
Cobalt	50	1.1	anr									
Copper	25	1.3	anr									
Iron	100	8.3	anr									
Lead	20	2.7	0.020	<20	-0.54	<20	-1.9	<20	0.58	<20		
Magnesium	5000	24	anr									
Manganese	15	.4	anr									
Molybdenum	20	1.2										
Nickel	40	1.7	anr									
Palladium	50	5.8										
Potassium	10000	60	anr									
Selenium	20	3.9	anr									
Silicon	200	6.6										
Silver	10	1.5	anr									
Sodium	10000	480	anr									
Thallium	50	5	anr									
Tin	50	2.7										
Vanadium	50	1.6	anr									
Zinc	20	4.2	anr									

(*) Outside of QC limits
(anr) Analyte not requested

7.3.2
7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Logis Number: J85904
Account: SHTXF - Entact Houston
Project: Chevron, Peith Ambay

File ID: IT040108M2.DAT
QC Limits: result < RL

Date Analyzed: 04/01/08
Run ID: MA20680

Methods: SW846 601BB
Units: ug/l

Time:			19:17	20:34		21:48	23:08			
Sample ID:			CCB4	CCB5		CCB6	CCB7			
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26	anr							
Antimony	20	5.3	anr							
Arsenic	20	4.2	anr							
Barium	200	.3	anr							
Beryllium	5.0	.2	anr							
Cadmium	5.0	.4	anr							
Calcium	5000	85	anr							
Chromium	10	.9	anr							
Cobalt	50	1.1	anr							
Copper	25	1.3	anr							
Iron	100	8.3	anr							
Lead	20	2.7	-0.37	<20	-1.3	<20	-0.85	<20	0.37	<20
Magnesium	5000	24	anr							
Manganese	15	.4	anr							
Molybdenum	20	1.2								
Nickel	40	1.7	anr							
Palladium	50	5.8								
Potassium	10000	66	anr							
Selenium	20	3.9	anr							
Silicon	200	5.6								
Silver	10	1.5	anr							
Sodium	10000	480	anr							
Thallium	10	5	anr							
Tin	50	2.7								
Vanadium	50	1.6	anr							
Zinc	20	4.2	anr							

(*) Outside of QC limits
(anr) Analyte not requested

7.3.2

7

BLANK RESULTS SUMMARY
Part 1 ~ Initial and Continuing Calibration Blanks

Logan Number: J85904
Account: EHTXF ~ Entactt Houston
Project: Chevron, Perth Amboy

File ID: IT040108M2.DAT
QC Limits: results < RL

Date Analyzed: 04/01/08
Run ID: MA20680
Methods: SW846 6010B
Units: ug/l

Time: Sample 10:			00:07 CCB8	01:21 CCB9		02:36 CCB10		03:53 CCB11		
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26	anr							
Antimony	20	5.3	anr							
Arsenic	20	4.2	anr							
Barium	200	.3	anr							
Beryllium	5.0	.2	anr							
Cadmium	5.0	.4	anr							
Calcium	5000	88	anr							
Chromium	10	.9	anr							
Cobalt	50	1.1	anr							
Copper	25	1.3	anr							
Iron	100	8.2	anr							
Lead	20	2.7	~1.5	<20	~1.3	<20	0.65	<20	~0.93	<20
Magnesium	5000	24	anr							
Manganese	15	.4	anr							
Molybdenum	20	1.2								
Nickel	40	1.7	anr							
Palladium	50	5.9								
Potassium	10000	66	anr							
Selenium	20	3.9	anr							
Silicon	200	6.6								
Silver	10	1.5	anr							
Sodium	10000	480	anr							
Thallium	10	5	anr							
Tin	50	2.7								
Vanadium	50	1.6	anr							
Zinc	20	4.2	anr							

(*): Outside of QC limits
(anr): Analyte not requested

7.3.2

7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1T040109M2.DAT
QC Limits: result < RL

Date Analyzed: 04/01/08
Run ID: MA20680
Methods: SW846 6010B
Units: ug/l

Time: Sample ID:			05:07 CCB12		06:21 CCB13		07:50 CCB14	
Metal	RL	IDL	raw	final	raw	final	raw	final
Aluminum	200	26	anr					
Antimony	20	5.3	anr					
Arsenic	20	4.2	anr					
Barium	200	.3	anr					
Beryllium	5.0	.2	anr					
Cadmium	5.0	.4	anr					
Calcium	5000	65	anr					
Chromium	10	.9	anr					
Cobalt	50	1.1	anr					
Copper	25	1.3	anr					
Iron	100	8.3	anr					
Lead	20	2.7	0.43	<20	~2.5	<20	0.45	<20
Magnesium	5000	24	anr					
Manganese	15	.4	anr					
Molybdenum	20	1.2						
Nickel	40	1.7	anr					
Palladium	50	5.8						
Potassium	10000	66	anr					
Selenium	20	3.9	anr					
Silicon	200	6.6						
Silver	10	1.5	anr					
Sodium	10000	480	anr					
Thallium	10	5	anr					
Tin	50	2.7						
Vanadium	50	1.6	anr					
Zinc	20	4.2	anr					

(*) Outside of QC limits
(anr) Analyte not requested

7.3.2
7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT040108M2.DAT Date Analyzed: 04/01/08 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA20680 Units: ug/l

Time:		15:32		16:49		18:03	
Sample ID:		ICV		CCV		CCV	
Metal		True		True		True	
		Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	anr						
Antimony	anr						
Arsenic	anr						
Barium	anr						
Beryllium	anr						
Cadmium	anr						
Calcium	anr						
Chromium	anr						
Cobalt	anr						
Copper	anr						
Iron	anr						
Lead	I000	I010	101.0	2000	2020	101.0	2000
Magnesium	anr						
Manganese	anr						
Molybdenum							
Nickel	anr						
Palladium							
Potassium	anr						
Selenium	anr						
Silicon							
Silver	anr						
Sodium	anr						
Thallium	anr						
Tin							
Vanadium	anr						
Zinc	anr						

(*) Outside of QC limits
(anr) Analyte not requested

7.3.3

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entech Houston
Project: Chevron, Perth Amboy

File ID: IT040109M2.DAT
QC Limits: 90 to 110 % Recovery

Date Analyzed: 04/01/96
Run ID: MA20680

Methods: SW846 6010B
Units: ug/l

Time:		19:11			20:28			21:42		
Sample ID:		CCV	CCV2	CCV	CCV4	CCV	CCV5			
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec	
Aluminum	anr									
Antimony	anr									
Arsenic	anr									
Barium	anr									
Beryllium	anr									
Cadmium	anr									
Calcium	anr									
Chromium	anr									
Cobalt	anr									
Copper	anr									
Iron	anr									
Lead	2000	2020	101.0	2000	2050	102.5	2000	2050	102.5	
Magnesium	anr									
Manganese	anr									
Molybdenum										
Nickel	anr									
Palladium										
Potassium	anr									
Selenium	anr									
Silicon										
Silver	anr									
Sodium	anr									
Thallium	anr									
Tin										
Vanadium	anr									
Zinc	anr									

(*) Outside of QC limits
(anr) Analyze not requested

7.3.3

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: JTO40108N2.DAT Date Analyzed: 04/01/08 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA20680 Units: ug/l

Time:		23:02		00:01		01:15			
Sample ID:	CCV	CCV6		CCV	CCV7	CCV	CCV8		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2090	104.5	2000	2100	105.0	2000	2080	104.0
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								
(*) Outside of QC limits									
(anr) Analyte not requested									

7.3.3

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entech Houston
Project: Chevron, Perrin Amboy

File ID: ITD40108M2.DAT Date Analyzed: 5/4/01/08 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA20680 Units: ug/l

Time:		02:29		03:47		05:01			
Sample ID:	CCV	CCV9		CCV	CCV10		CCV	CCV11	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	anr								
Lead	2000	2040	102.0	2000	2000	100.0	2000	1970	98.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								
(*) Outside of QC limits									
(anr) Analyte not requested									

7.3.3
7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: ITG40108M2.DAT
QC Limits: 90 to 110 % Recovery

Date Analyzed: 04/01/08 Methods: SW846 6010B
Run ID: MA20680 Units: ug/l

Time:		06:15		07:44	
Sample ID:		CCV12		CCV13	
Metal	True	Results	% Rec	True	Results % Rec
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Cadmium	anr				
Calcium	anr				
Chromium	anr				
Cobalt	anr				
Copper	anr				
Iron	anr				
Lead	2000	1900	95.0	2000	1880 94.0
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	anr				
Palladium					
Potassium	anr				
Selenium	anr				
Silicon					
Silver	anr				
Sodium	anr				
Thallium	anr				
Tin					
Vanadium	anr				
Zinc	anr				
(*) Outside of QC limits					
(anr) Analyte not requested					

7.3.3

7

HIGH STANDARD CHECK SUMMARY

Login Number: J85904
Account: EHTXF - Entart Houston
Project: Chevron, Perth Amboy

File ID: I1042108M2.DAT
QC Limits: 95 to 105 % Recovery

Date Analyzed: 04/01/08
Run ID: MA20680

Methods: SW646 4Q10B
Units: ug/l

Time:	15:12		
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	anr		
Lead	4000	3980	99.5
Magnesium	anr		
Manganese	anr		
Molybdenum			
Nickel	anr		
Palladium			
Potassium	anr		
Selenium	anr		
Silicon			
Silver	anr		
Sodium	anr		
Thallium	anr		
Tin			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

7.3.4

7

LOW CALIBRATION CHECK STANDARDS SUMMARY

LogIn Number: J85904
Account: EHXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT540108M2.DAT
QC Limits: 50 to 150 % Recovery

Date Analyzed: 04/01/08
Run ID: MA20680
Method: SW846 6010B
Units: ug/l

Time:	15:26
Sample ID: CRI	CRI1
Metal	True
True	Results & Rec

Aluminum

Antimony 120 10

Arsenic 20 20

Barium 490

Beryllium 15 2.0 anr

Cadmium 10

Calcium

Chromium 20

Cobalt 100

Copper 50

Iron

Lead 6.0 6.0

Magnesium

Manganese 30

Molybdenum 40

Nickel 80

Palladium 100

Potassium

Selenium 10 10

Silicon

Silver 20

Sodium

Thallium 20 20

Tin

Vanadium 100

Zinc 40

(*) Outside of QC limits
(anr) Analyte not requested

7.3.5

7

INITIAL LOW CALIBRATION CHECK STANDARDS SUMMARY

Logic Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Berth Amboy

File ID: IT040108M2.DAT Date Analyzed: 04/01/08 Methods: SW846 60108
QC Limits: 50 to 150 % Recovery Run ID: MA20680 Units: ug/l

Time:	15:20
Sample ID: CRIB	CRIB:
Metal True	Results % Rec

Aluminum	400		
Antimony	12		
Arsenic	16		
Barium	400		
Beryllium	2.0		
Cadmium	8.0		
Calcium	5000		
Chromium	20		
Cobalt	100		
Copper	50		
Iron	200		
Lead	6.0	6.6	110.0
Magnesium	5000		
Manganese	30		
Molybdenum	40		
Nickel	80		
Palladium	100		
Potassium	10000		
Selenium	20		
Silicon	400		
Silver	20		
Sodium	10000		
Thallium	20		
Tin	20		
Vanadium	100		
Zinc	40		

(*) Outside of QC limits
(anr) Analyte not requested

7.3.6

7

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Logan Number: J85904
Account: EHTXF - Enlact Houston
Project: Chevron, Perth Amboy

File ID: IT040108M2.DAT
QC Limits: 80 to 120 % Recovery

Date Analyzed: 04/01/08
Run ID: MA20680

Methods: SW846 60102
Units: ug/l

Time:	16:12	16:18	23:48	23:54
Sample ID: ICSA	ICSAB	ICSAB1	ICSAB2	ICSAB2
Metal	True	True	Results % Rec	Results % Rec
Aluminum	500000	500000	480000 96.0	473000 94.6
Antimony	1000	6.3	1050 105.0	9.9
Arsenic	1000	-1.1	1050 105.0	1.5
Barium	500	1.1	528 105.6	1.0
Beryllium	500	0.73	530 106.0	0.72
Cadmium	1000	3.5	1030 103.0	4.2
Calcium	400000	400000	394000 98.5	402000 100.5
Chromium	500	1.8	527 104.4	1.6
Cobalt	500	1.7	505 101.0	1.3
Copper	500	7.8	529 105.8	8.7
Iron	200000	200000	195000 98.0	197000 98.5
Lead	1000	-2.5	1020 102.0	-0.58
Magnesium	500000	500000	524000 104.8	521000 104.2
Manganese	500	4.3	523 104.6	4.7
Molybdenum	500	0.29	524 102.8	0.23
Nickel	1000	-0.68	989 98.9	-0.12
Palladium	500	3.7	532 106.4	4.6
Potassium		2480	2390	2450
Selenium	1000	-0.88	1950 105.0	-2.0
Silicon		-110	-94	-110
Silver	1000	0.64	1090 109.0	1.3
Sodium		-220	-490	-300
Thallium	1000	-3.7	1020 102.0	-8.6
Tin		-5.5	-7.2	-7.3
Vanadium	500	-3.4	515 103.0	-4.1
Zinc	1000	-7.6	1010 101.0	-7.8

(*1 Outside of QC limits
(anr) Analyte not requested

7.3.7

7

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT640108M2.DAT
QC Limits: 80 to 120 % Recovery

Date Analyzed: 04/01/08
Run ID: MA20680
Methods: 5W846 6010B
Units: ug/l

Time:	Sample ID:	ICSA	ICSAB	07:31		07:38	
Meta:	True	True	Results	% Rec	Results	% Rec	
Aluminum	500000	500000	447000	89.4	445000	89.0	
Antimony		1000	9.8		966	96.6	
Arsenic		1000	-2.2		1010	101.0	
Barium		500	0.93		504	100.8	
Beryllium		500	0.66		483	96.6	
Cadmium		1000	1.6		931	93.1	
Calcium	400000	400000	365000	91.3	361000	90.3	
Chromium		500	1.7		483	96.6	
Cobalt		500	0.97		462	92.4	
Copper		500	6.6		491	98.2	
Iron	200000	200000	190000	95.0	192000	96.0	
Lead		1000	-0.92		920	92.0	
Magnesium	500000	500000	500000	100.0	501000	100.2	
Manganese		500	4.4		486	97.2	
Molybdenum		500	-1.2		499	99.8	
Nickel		1000	-0.70		894	89.4	
Palladium		500	3.8		497	99.4	
Potassium			2150		2120		
Selenium		1000	-2.5		977	97.7	
Silicon			-110		-91		
Silver		1000	-0.056		1030	103.0	
Sodium			-34		-180		
Thallium		1000	3.0		1000	100.0	
Tin			-6.8		-5.3		
Vanadium		500	-3.2		506	101.2	
Zinc		1000	-8.0		916	91.6	

(*) Outside of QC limits
(anr) Analyte not requested

7.3.7
7

Accutest Laboratories Instrument Runlog
Inorganics Analyzes

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT040308M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/03/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20693

Time	Sample Description	Dilution PS Factor	Recov	Comments
10:07	MA20693-STD1	1		STDA
10:14	MA20693-STD2	1		STDB
10:20	MA20693-STD3	1		STDC
10:26	MA20693-STD4	1		STDD
10:33	MA20693-STD5	1		STDE
10:39	MA20693-STD6	1		STDF
10:45	MA20693-STD7	1		STDG
10:52	MA20693-STD8	1		STDH
10:58	MA20693-STD9	1		STDI
11:23	MA20693-HSTD1	1		
11:39	MA20693-HSTD2	1		
11:45	MA20693-CRIB1	1		
11:52	MA20693-CRIA1	1		
11:58	MA20693-ICV1	1		
12:04	MA20693-ICB1	1		
12:11	MA20693-ICCV1	1		
12:18	MA20693-ICB1	1		
12:26	MA20693-CRI1	1		
12:32	MA20693-ICSA1	1		
12:39	MA20693-ICSAB1	1		
12:45	MA20693-CCV1	1		
12:51	MA20693-CCB2	1		
13:02	ZZZZZZ	1		
13:08	ZZZZZZ	1		
13:19	MP43081-MBI	1		
13:25	MP43081-B1	1		
13:31	MP43081-LC1	1		
13:37	MP43081-S1	1		
13:43	MP43081-S2	1		
13:49	J87043-1	1		(sample used for QC only; not part of login J85904)
13:56	MP43081-SD1	5		
14:02	MA20693-CCV2	1		
14:08	MA20693-CCB3	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyzes

Login Number: J85904
Account: EHTXF - Intact Houston
Project: Chevron, Perth Amboy

File ID: IT040308M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/03/08 Methods: EPA 200.7, SWB46 6010B
Run ID: MA20693

Time	Sample Description	Dilution PS Factor	Recov	Comments
14:15	ZZZZZZ	1		
14:21	ZZZZZZ	1		
14:27	J85904-2A	25		
14:33	ZZZZZZ	1		
14:39	MP43064-PS1	1		
14:45	MP43081-PS1	1		
14:52	ZZZZZZ	1		
14:58	MP43089-MB1	1		
15:04	MP43089-B1	1		
15:10	MA20693-CCV3	1		
15:16	MA20693-CCB4	1		
15:23	ZZZZZZ	5		
15:29	J85904-7A	125		
-----> Last reportable sample/prep for job J85904				
15:36	MP43089-S1	1		tsol
15:42	MP43089-S2	1		tsol
15:48	J86695-13	1		(sample used for QC only; not part of login J85904)
15:54	MP43089-SD1	5		tsol
16:00	MA20693-CR1B2	1		
16:07	MA20693-CR12	1		
16:14	MA20693-ICSA2	1		
16:20	MA20693-IC5AB2	1		
16:26	MA20693-CCV4	1		
16:33	MA20693-CCB5	1		
-----> Last reportable CCB for job J85904				
16:50	MP43113-MB1	1		
16:56	MP43113-B1	1		
17:02	MP43113-S1	1		
17:08	MP43113-S2	1		
17:15	J85843-1R	1		(sample used for QC only; not part of login J85904)
17:21	MP43113-SD1	5		
17:27	ZZZZZZ	1		
17:33	ZZZZZZ	1		
17:39	ZZZZZZ	1		
17:45	MA20693-CCV5	1		

Accutest Laboratories Instrument Runlog
Inorganic Analyses

Login Number: J85904
Account: EHCXF - Entech Houston
Project: Chevron, Perth Amboy

File ID: IT040308ML.DAT
Analyst: ND
Parameter: Pb

Date Analyzed: 04/01/08 Methods: EPA 209.7, EW846 6010E
Run ID: MA20693

Time	Sample Description	Dilution Factor	P5 Recov	Comments
17:52	MA20693-CCB6	1		
17:58	ZZZZZZ	1		
18:04	ZZZZZZ	1		
18:10	ZZZZZZ	1		
18:16	ZZZZZZ	1		
18:23	MP43114-MB1	1		
18:29	MP43114-B1	1		
18:35	MP43114-L1	1		
18:41	MP43114-S2	1		
18:47	J86806-E	1		(sample used for QC only; not part of login J85904)
18:53	MA20693-CCV6	1		
19:00	MA20693-CCB7	1		
19:06	MP43114-SD1	1		
19:12	ZZZZZZ	1		
19:18	ZZZZZZ	1		
19:24	ZZZZZZ	1		
19:35	ZZZZZZ	2		
19:41	ZZZZZZ	1		
19:47	ZZZZZZ	1		
19:53	ZZZZZZ	1		
19:59	ZZZZZZ	1		
20:08	ZZZZZZ	1		
20:14	MA20693-CCV7	1		
20:20	MA20693-CCB8	1		
20:26	MP43115-MB1	1		
20:32	MP43115-LC1	1		
20:39	ZZZZZZ	1		
20:45	ZZZZZZ	1		
20:53	MP43100-MB1	1		
20:59	MP43100-B1	1		
21:05	MP43100-S1	1		
21:11	MP43100-S2	1		
21:17	J87094-1	1		(sample used for QC only; not part of login J85904)

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: EHTXF - Entac Houston
Project: Chevron, Perth Amboy

File ID: 1T040308M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/03/08 Method: EPA 200.7, SW846 6010B
Run ID: MA20693

Time	Sample Description	Dilution PS Factor	Recov	Comments
21:21	MA20693-CCV8	1		
21:30	MA20693-CCR9	1		
21:36	MP43100-SB1	5		
21:42	ZZZZZZ	1		
21:48	ZZZZZZ	1		
21:54	ZZZZZZ	1		
22:01	ZZZZZZ	1		
22:07	ZZZZZZ	1		
22:13	ZZZZZZ	1		
22:19	ZZZZZZ	1		
22:25	ZZZZZZ	1		
22:31	MA20693-CCV9	1		
22:38	MA20693-CCB10	1		
22:46	ZZZZZZ	1		
22:52	ZZZZZZ	1		
22:59	MP43100-SB1	5		
23:05	ZZZZZZ	1		
23:11	ZZZZZZ	1		
23:23	ZZZZZZ	1		
23:47	MA20693-CR1B3	1		
23:53	MA20693-ICSA3	1		
00:00	MA20693-ICSA3B3	1		
00:06	MA20693-CCV10	1		
00:12	MA20693-CCB11	1		
00:18	ZZZZZZ	1		
00:25	ZZZZZZ	1		
00:31	ZZZZZZ	1		
00:37	ZZZZZZ	1		
00:43	MA20693-CCV11	1		
00:49	MA20693-CCB12	1		
00:56	ZZZZZZ	1		
01:02	ZZZZZZ	1		
01:08	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: EMTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1T040308M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/03/08 Methods: EPA 200.7, SW845 6010B
Run ID: MA20693

Time	Sample Description	Dilution PS Factor	Recov	Comments
01:14	ZZZZZZ	1		
01:20	ZZZZZZ	1		
01:26	ZZZZZZ	1		
01:33	ZZZZZZ	1		
01:39	ZZZZZZ	1		
01:45	ZZZZZZ	1		
01:51	ZZZZZZ	1		
01:57	MA20693-CCV12	1		
02:03	MA20693-CCB13	1		
02:10	ZZZZZZ	1		
02:16	ZZZZZZ	1		
02:22	ZZZZZZ	1		
02:28	ZZZZZZ	1		
02:34	ZZZZZZ	1		
02:40	ZZZZZZ	1		
02:47	ZZZZZZ	1		
02:53	ZZZZZZ	1		
02:59	ZZZZZZ	1		
03:05	ZZZZZZ	1		
03:11	MA20693-CCV13	1		
03:18	MA20693-CCB14	1		
03:24	ZZZZZZ	1		
03:30	ZZZZZZ	1		
03:36	ZZZZZZ	1		
03:42	ZZZZZZ	1		
03:48	ZZZZZZ	1		
03:55	ZZZZZZ	1		
04:01	ZZZZZZ	1		
04:09	MP43036-MB3	1		
04:15	MP43036-LC3	1		
04:21	ZZZZZZ	1		
04:27	MA20693-CCV14	1		
04:33	MA20693-CCB15	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: J85904
Account: EMTXF - Enlact Houston
Project: Chevron, Perth Amboy

File ID: IT040308M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/03/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20693

Time	Sample Description	Dilution PS Factor	Reccv	Comments
04:40	MP43064-MB2	1		
04:46	MP43064-B2	1		
04:52	MP43064-LC2	1		
04:58	MP43064-S1	1		
05:04	MP43064-S2	1		
05:10	J86611-1	1		(sample used for QC only; not part of login J85904)
05:17	MP43064-S01	5		
05:23	ZZZZZZ	1		
05:29	ZZZZZZ	1		
05:35	MA20693-CCV15	1		
05:41	MA20693-CCB16	1		
05:48	ZZZZZZ	1		
05:54	ZZZZZZ	1		
06:00	ZZZZZZ	1		
06:06	ZZZZZZ	1		
06:12	ZZZZZZ	1		
06:18	MA20693-CCV16	1		
06:25	MA20693-CCB17	1		
07:34	MA20693-CR1B4	1		
07:40	MA20693-1CSA4	1		
07:46	MA20693-1CSAB4	1		
07:53	MA20693-CCV17	1		
07:59	MA20693-CCB18	1		
08:05	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

7.4
7

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT040308M1.DAT
Analyst: NO
Parameters: Pb

Date Analyzed: 04/03/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20693

Time	Sample Description	Istd#1
10:07	MA20693-STD1	70404 R
10:14	MA20693-STD2	70154
10:20	MA20693-STD3	70085
10:26	MA20693-STD4	69681
10:33	MA20693-STD5	68961
10:39	MA20693-STD6	68408
10:45	MA20693-STD7	67472
10:52	MA20693-STD8	67128
10:58	MA20693-STD9	66875
11:23	MA20693-HSTD1	67114
11:39	MA20693-HSTD2	67450
11:45	MA20693-CRIB1	69300
11:52	MA20693-CR1A1	68199
11:58	MA20693-ICV1	69145
12:04	MA20693-ICB1	68885
12:11	MA20693-ICCV1	67649
12:18	MA20693-CCR1	68256
12:26	MA20693-CR11	68791
12:32	MA20693-IC3A1	64261
12:39	MA20693-LTSAB1	64297
12:45	MA20693-CCV1	67094
12:51	MA20693-CCB2	67360
13:02	ZZZZZZ	72845
13:08	ZZZZZZ	68439
13:19	MP43081-MB1	67321
13:25	MP43081-B1	66604
13:31	MP43081-LC1	70279
13:37	MP43081-S1	68147
13:43	MP43081-32	68288
13:49	J87043-1	69077
13:56	MP43081-SD1	67651
14:02	MA20693-CCV2	65935
14:08	MA20693-CCB3	67422

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT040308M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/03/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20693

Time	Sample Description	Istd#1
14:15	ZZZZZZ	72259
14:21	ZZZZZZ	68894
14:27	J85904-2A	69740
14:33	ZZZZZZ	66934
14:39	MP43064-PS1	68315
14:45	MP43081-PS1	67797
14:52	ZZZZZZ	63836
14:58	MP43089-MB1	66015
15:04	MP43089-B1	66019
15:10	MA20693-CCV3	66278
15:16	MA20693-CCB4	66972
15:23	ZZZZZZ	67415
15:29	J85904-2A	65741
15:36	MP43089-S1	67638
15:42	MP43089-S2	68188
15:48	J86695-13	69678
15:54	MP43089-SD1	67821
16:00	MA20693-CRIB2	67031
16:07	MA20693-CR12	67202
16:14	MA20693-ICSA2	63046
16:20	MA20693-IC3AB2	62822
16:26	MA20693-CCV4	66755
16:33	MA20693-CCB5	66793
16:50	MP43113-MB1	63755
16:56	MP43113-B1	64336
17:02	MP43113-S1	63489
17:08	MP43113-S2	65175
17:15	J85843-1R	64132
17:21	MP43113-SD1	66070
17:27	ZZZZZZ	62922
17:33	ZZZZZZ	62982
17:39	ZZZZZZ	64291
17:45	MA20693-CCV5	66569

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: ESTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 17040308M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/03/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20693

Time	Sample Description	1std#1
17:52	MA20693-CCB6	66630
17:58	ZZZZZZ	61181
18:04	ZZZZZZ	62983
18:10	ZZZZZZ	63438
18:16	ZZZZZZ	63639
18:23	MP43114-MB1	64200
18:29	MP43114-B1	63215
18:35	MP43114-S1	65101
18:41	MP43114-S2	65046
18:47	J86806-5	64882
18:53	MA20693-CCV6	65725
19:00	MA20693-CCB7	66945
19:06	MP43114-SD1	66721
19:12	ZZZZZZ	63686
19:18	ZZZZZZ	63968
19:24	ZZZZZZ	67668
19:35	ZZZZZZ	64878
19:42	ZZZZZZ	66533
19:47	ZZZZZZ	65743
19:52	ZZZZZZ	65547
19:59	ZZZZZZ	66905
20:08	ZZZZZZ	65039
20:14	MA20693-CCV7	65885
20:20	MA20693-CCB8	67228
20:26	MP43115-MB1	67146
20:33	MP43115-LC1	66495
20:39	ZZZZZZ	67601
20:45	ZZZZZZ	67066
20:53	MP43100-MB1	66042
20:59	MP43100-B1	66283
21:05	MP43100-S1	69640
21:11	MP43100-S2	69744
21:17	J87084-1	71331

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHEXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: LT040308M1.DAT
Analyst: NS
Parameters: Pb

Date Analyzed: 04/02/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20693

Time	Sample Description	Istd#1
21:23	MA20693-CCV8	66447
21:30	MA20693-CCB9	66705
21:36	MP43100-SD1	68964
21:42	ZZZZZZ	72955
21:48	ZZZZZZ	72241
21:54	ZZZZZZ	69810
22:03	ZZZZZZ	69209
22:07	ZZZZZZ	69927
22:13	ZZZZZZ	73528
22:19	ZZZZZZ	71212
22:25	ZZZZZZ	69261
22:31	MA20693-CCV9	65414
22:38	MA20693-CCB10	66114
22:46	ZZZZZZ	71279
22:52	ZZZZZZ	72738
22:59	MP43100-SD1	66769
23:05	ZZZZZZ	63670
23:11	ZZZZZZ	63157
23:23	ZZZZZZ	65110
23:47	MA20693-CR1B3	68148
23:53	MA20693-1CSA3	64275
00:00	MA20693-ICSA3B3	64862
00:06	MA20693-CCV10	68387
00:12	MA20693-CCB11	68544
00:18	ZZZZZZ	67843
00:25	ZZZZZZ	67034
00:31	ZZZZZZ	66848
00:37	ZZZZZZ	71540
00:43	MA20693-CCV11	69644
00:49	MA20693-CCB12	71220
00:56	ZZZZZZ	72506
01:02	ZZZZZZ	72604
01:08	ZZZZZZ	72982

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perin Amboy

File ID: JT040308M1.0AT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/03/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20693

Time	Sample Description	Istd#1
01:14	ZZZZZZ	75859
01:20	ZZZZZZ	74990
01:26	ZZZZZZ	74591
01:33	ZZZZZZ	77609
01:39	ZZZZZZ	73556
01:45	ZZZZZZ	72190
01:51	ZZZZZZ	74557
01:57	MA20693-CCV12	70313
02:03	MA20693-CCB13	71534
02:10	ZZZZZZ	77736
02:16	ZZZZZZ	74295
02:22	ZZZZZZ	73555
02:28	ZZZZZZ	76388
02:34	ZZZZZZ	76542
02:40	ZZZZZZ	74799
02:47	ZZZZZZ	74491
02:53	ZZZZZZ	74136
02:59	ZZZZZZ	72977
03:05	ZZZZZZ	77198
03:11	MA20693-CCV13	70636
03:18	MA20693-CCB14	71415
03:24	ZZZZZZ	72758
03:30	ZZZZZZ	76141
03:36	ZZZZZZ	73266
03:42	ZZZZZZ	75978
03:48	ZZZZZZ	73798
03:55	ZZZZZZ	72792
04:01	ZZZZZZ	77825
04:09	MP43036-MB3	71760
04:15	MP43036-LC3	70451
04:21	ZZZZZZ	67232
04:27	MA20693-CCV14	69194
04:33	MA20693-CCB15	69802

INTERNAL STANDARD SUMMARY

Login Number: J85904
Account: ERTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: 1T040308M1.DAT
Analyst: ND
Parameters: Pb

Date Analyzed: 04/03/08 Methods: EPA 200.7, SW846 6010B
Run ID: MA20693

Time	Sample Description	Istd#1
04:40	MP43064-MB2	70205
04:46	MP43064-BZ	68334
04:52	MP43064-LC2	72219
04:58	MP43064-S1	70216
05:04	MP43064-S2	70761
05:10	J86611-1	71587
05:17	MP43064-SB1	70064
05:23	ZZZZZZ	72269
05:29	ZZZZZZ	73218
05:35	MA20693-CCV15	68481
05:41	MA20693-CCB16	69536
05:48	ZZZZZZ	71723
05:54	ZZZZZZ	73256
06:00	ZZZZZZ	72592
06:06	ZZZZZZ	73102
06:12	ZZZZZZ	72786
06:18	MA20693-CCV16	68520
06:25	MA20693-CCB17	69327
07:34	MA20693-CP1B4	69123
07:40	MA20693-LCSA4	64657
07:46	MA20693-LCSAB4	64658
07:53	MA20693-CCV17	68038
07:59	MA20693-CCB18	69433
08:05	ZZZZZZ	40263 !

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium	60-125 %

7.4.1
7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT040308M1.DAT
QC Limits: result < RL

Data Analyzed: 04/03/08
Run ID: MA20683

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time: Sample ID:		12:04 ICB1		12:18 CCB1		12:51 CCB2		14:08 CCB3		
Metal	RL	INL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	26								
Antimony	6.0	5.2	anr							
Arsenic	8.0	4.2	anr							
Barium	200	.3								
Beryllium	1.0	.2	anr							
Cadmium	4.0	.4	anr							
Calcium	5000	85								
Chromium	10	.9	anr							
Cobalt	50	1.1								
Copper	25	1.3	anr							
Iron	100	8.3								
Lead	3.0	2.7	<2.0	<3.0	<1.8	<3.0	<1.5	<3.0	<1.2	<20
Magnesium	5000	24	anr							
Manganese	15	.4	anr							
Molybdenum	20	1.2								
Nickel	40	1.7	anr							
Palladium	50	5.8								
Potassium	10000	66								
Selenium	10	3.9	anr							
Silicon	200	6.6								
Silver	10	1.5	anr							
Sodium	10000	480								
Thallium	10	5	anr							
Tin	10	2.7								
Vanadium	50	1.6	anr							
Zinc	20	4.2	anr							

(*) Outside of QC limits
(anr) Analyte not requested

7.4.2
7

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IF040308M1.DAT
QC Limits: result < RL

Date Analyzed: 04/03/08
Run ID: MA20693

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time: Sample ID:		15:16 CCB4		16:23 CCB5		
Metal	RL	IDL	raw	final	raw	final
Aluminum	200	26				
Antimony	6.0	5.3	anr			
Arsenic	8.0	4.2	anr			
Barium	200	.3				
Beryllium	1.0	.2	anr			
Cadmium	4.0	.4	anr			
Calcium	5000	85				
Chromium	10	.9	anr			
Cobalt	50	1.1				
Copper	25	1.3	anr			
Iron	100	8.3				
Lead	2.0	2.7	1.2	<20	~3.2	<20
Magnesium	5000	24	anr			
Manganese	15	.4	anr			
Molybdenum	20	1.2				
Nickel	40	1.7	anr			
Palladium	50	5.8				
Potassium	10000	66				
Selenium	10	3.9	anr			
Silicon	200	6.6				
Silver	10	1.5	anr			
Sodium	10000	480				
Thallium	10	5	anr			
Tin	10	2.7				
Vanadium	50	1.6	anr			
Zinc	20	4.2	anr			

(*) Outside of QC limits
(anr) Analyte not requested

7.4.2

7

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: SMTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT040308M1.DAT Date Analyzed: 04/03/08 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MAZ0693 Units: ug/l

Time:		11:58		12:45		14:02			
Sample ID:	ICV	ICV1	CCV	CCV1	CCV	CCV2			
(Meta)	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium									
Beryllium	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron									
Lead	1000	990	99.0	2005	1990	99.5	2000	2030	101.5
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Thallium	anr								
Tin									
Vanadium	anr								
Zinc	anr								
(*) Outside of QC limits									
(anr) Analyte not requested									

7.4.3

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CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IF040308M1.DAT Date Analyzed: 04/03/08 Methods: EPA 200.7, SW846 6010B
QC Limits: 95 to 105 % Recovery Run ID: MA20693 Units: ug/l

Time:		15:10		16:26	
Sample ID:		CCV3		CCV4	
Metal	True	Results	* Rec	True	Results % Rec

Aluminum						
Antimony	anr					
Arsenic	anr					
Barium						
Beryllium	anr					
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron						
Lead	2000	2030	101.5	2000	2020	101.0
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Palladium						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Thallium	anr					
Tin						
Vanadium	anr					
Zinc	anr					

(*) Outside of QC limits
(anr) Analyte not requested

7.4.3

7

HIGH STANDARD CHECK SUMMARY

Login Number: J85904
Account: EBTXF - Entech Houston
Project: Chevron, Parish Amboy

File ID: IT040202ML.DAT
QC Limits: 95 to 105 % Recovery

Date Analyzed: 04/03/08
Run ID: MA20693

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:	11:39
Sample ID: HSTD	HSTD2
Metal	True
Results	* Rec

Aluminum

Antimony anr

Arsenic anr

Barium

Beryllium anr

Cadmium anr

Calcium

Chromium anr

Cobalt

Copper anr

Iron

Lead 4000 3990 99.8

Magnesium anr

Manganese anr

Molybdenum

Nickel anr

Palladium

Potassium

Selenium anr

Silicon

Silver anr

Sodium

Thallium anr

Tin

Vanadium anr

Zinc anr

(*) Outside of QC limits

(anr) Analyte not requested

7.4.4

7

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT040308M1.DAT
QC Limits: 50 to 150 % Recovery

Date Analyzed: 04/03/08
Run ID: MA20693

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:	11:52	12:26	16:07
Sample ID: CRI	CRI1	CRI1	CRI2
Metal	True	True	True
	Results	% Rec	Results % Rec

Aluminum

Antimony 120 10

Arsenic 20 20

Barium 400

Beryllium 10 2.0 anr

Cadmium 10

Calcium

Chromium 20

Cobalt 100

Copper 50

Iron

Lead 6.0 6.0

Magnesium

Manganese 30

Molybdenum 40

Nickel 80

Palladium 100

Potassium

Selenium 10 10

Silicon

Silver 10

Sodium

Thallium 20 20

Tin

Vanadium 100

Zinc 40

(*) Outside of QC limits
(anr) Analyte not requested

7.4.5

7

INITIAL LOW CALIBRATION CHECK STANDARD SUMMARY

Login Number: J85904
Account: EHTXP - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT040308M1.DAT Date Analyzed: 04/03/08 Methode: EPA 200.7, SW846 6010B
QC Limits: 50 to 150 % Recovery Run ID: MA20693 Units: ug/l

Time:		11:45	16:00	
Sample ID:		CRIB1	CRIB2	
Metal	True	Results	% Rec	Results % Rec
Aluminum	400			
Antimony	12			
Arsenic	16			
Barium	400			
Beryllium	2.5			
Cadmium	8.0			
Calcium	5000			
Chromium	20			
Cobalt	100			
Copper	50			
Iron	200			
Lead	6.0	7.4	123.3	5.5 98.3
Magnesium	5000			
Manganese	30			
Molybdenum	40			
Nickel	80			
Palladium	100			
Potassium	10000			
Selenium	20			
Silicon	400			
Silver	20			
Sodium	10000			
Thallium	20			
Tin	20			
Vanadium	100			
Zinc	40			

(*) Outside of QC limits
(anr) Analyte not requested

7.4.6

7

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - (CSA and ICSAB Standards)

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

File ID: IT040308M1.DAT
QC Limits: 80 to 120 % Recovery

Date Analyzed: 04/03/08
Run ID: MA20693

Methods: EPA 200.7, SW846 6010B
Units: ug/l

Time:	12:32	12:39	16:14	16:20
Sample ID:	ICSAB	ICSAB1	ICSAB2	ICSAB2
Metal	True	Results % Rec	Results % Rec	Results % Rec
Aluminum	500000	472000 94.4	455000 93.0	480000 96.0
Antimony	1000	5.3	1040 104.0	1060 106.0
Arsenic	1000	6.0	1020 102.0	1040 104.0
Barium	500	0.94	519 103.8	524 104.8
Beryllium	500	0.83	508 101.6	522 104.4
Cadmium	1000	2.7	977 97.7	1010 101.0
Calcium	400000	386000 96.5	380000 95.0	398000 99.5
Chromium	500	1.4	502 100.4	511 102.2
Cobalt	500	1.7	482 96.4	492 98.4
Copper	500	7.9	509 101.8	515 103.0
Iron	200000	193000 96.5	193000 96.5	195000 97.5
Lead	1000	0.0071	968 96.8	998 99.8
Magnesium	500000	510000 102.0	506000 101.2	518000 103.6
Manganese	500	4.8	504 100.8	513 102.6
Molybdenum	500	2.5	501 100.2	509 101.8
Nickel	1000	-0.59	926 93.6	960 96.0
Palladium	500	4.0	515 103.0	524 104.8
Potassium		2440	2370	2610
Selenium	1000	-4.0	984 98.4	1000 100.0
Silicon		-110	-98	-100
Silver	1000	0.14	1050 105.0	1060 106.0
Sodium		-250	-490	-150
Thallium	1000	11.0	1010 101.0	1000 100.0
Tin		-5.3	-8.0	-7.3
Vanadium	500	-0.57	494 98.8	495 99.0
Zinc	1000	-6.5	965 96.6	984 98.4

(*) Outside of QC limits
(anr) Analyte not requested

7.4.7
7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: J85904
Account: EHTXF - Entech Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP43029
Matrix Type: LEACHATE

Methods: SW846 60102
Units: mg/L

Prep Date: 03/27/08

Metal	RL	IDL	MB raw	final
Aluminum	0.20	.026		
Antimony	0.20	.0053		
Arsenic	0.50	.0042	anr	
Barium	1.0	.0003	anr	
Beryllium	0.0050	.0002		
Cadmium	0.0050	.0094	anr	
Calcium	5.0	.085		
Chromium	0.010	.0009	anr	
Cobalt	0.050	.0011		
Copper	0.025	.0013		
Iron	0.10	.0083		
Lead	0.50	.0027	0.0074	<0.50
Magnesium	5.0	.024		
Manganese	0.015	.0004		
Molybdenum	0.010	.0012		
Nickel	0.040	.0017		
Palladium	0.010	.0058		
Potassium	10	.066		
Selenium	0.50	.0039	anr	
Silicon	0.20	.0066		
Silver	0.010	.0015	anr	
Sodium	5.0	.48		
Thallium	0.20	.005		
Tin	0.010	.0027		
Vanadium	0.050	.0016		
Zinc	0.10	.0042		

Associated samples MP43029: J85904-1A, J85904-2A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J85904
 Account: EHTXF - Entact Houston
 Project: Chevron, Berth Amboy

QC Batch ID: MP43029
 Matrix Type: LEACHATE

Methods: SW846 6010B
 Units: mg/L

Prep Date: 03/27/08

Metal	J85287-137A Original MS	SpikeJor MPITCLP1 % Rec	QC Limits
-------	----------------------------	----------------------------	--------------

Aluminum

Antimony

Arsenic anr

Barium anr

Beryllium

Cadmium anr

Calcium

Chromium anr

Cobalt

Copper

Iron

Lead 0.0064 2.1 2.0 104.6 75-125

Magnesium

Manganese

Molybdenum

Nickel

Palladium

Potassium

Selenium anr

Silicon

Silver anr

Sodium

Thallium

Tin

Vanadium

Zinc

Associated samples MP43029: J85904-1A, J85904-2A

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

7.5.2

7

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Logan Number: J85904
 Account: ESTXF - Entact Houston
 Project: Chevron, Perth Ambay

QC Batch ID: MP43029
 Matrix Type: LSACHATE

Method: SW846 6010B
 Units: mg/l

Prep Date: 03/25/08

Metal	J85287-137A Original MSD	SpikeLot MPITCLP1 & Rec	MSD RPD	QC Limit
-------	-----------------------------	----------------------------	------------	-------------

Aluminum
 Antimony
 Arsenic anr
 Barium anr
 Beryllium
 Cadmium anr
 Calcium
 Chromium anr
 Cobalt
 Copper
 Iron
 Lead 0.0064 2.2 2.0 109.6 0.0 20
 Magnesium
 Manganese
 Molybdenum
 Nickel
 Palladium
 Potassium
 Selenium anr
 Silicon
 Silver anr
 Sodium
 Thallium
 Tin
 Vanadium
 Zinc

Associated samples MP43029: J85904-1A, J85904-2A

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

7.5.2

7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: J85904
Account: ERTXF - Entact Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP43029
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 02/27/08

Metal	BSP Result	SpikeLot MPITCJ,Fl & Rec	QC Limits
-------	---------------	-----------------------------	--------------

Aluminum

Antimony

Arsenic anr

Barium anr

Beryllium

Cadmium anr

Calcium

Chromium anr

Cobalt

Copper

Iron

Lead 2.2 2.0 110.0 80-120

Magnesium

Manganese

Molybdenum

Nickel

Palladium

Potassium

Selenium anr

Silicon

Silver anr

Sodium

Thallium

Tin

Vanadium

Zinc

Associated samples MP43029: J85904-1A, J85904-2A

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

7.5.3

7

CEPIAL DILUTION RESULTS SUMMARY

Login Number: J85904
 Account: EHTXF - Entact Houston
 Project: Chevron, Perth Amboy

QC Batch ID: MP43029
 Matrix Type: LEACHATE

Methods: SW846 60105
 Units: ug/l

Prep Date: 03/27/08

J85287-137A			
Metal	Original SDL 1:5	RPD	QC Limits

Aluminum

Antimony

Arsenic anr

Barium anr

Beryllium

Cadmium anr

Calcium

Chromium anr

Cobalt

Copper

Iron

Lead 6.42 0.00 100.0(a) 0-10

Magnesium

Manganese

Molybdenum

Nickel

Palladium

Potassium

Selenium anr

Silicon

Silver anr

Sodium

Thallium

Tin

Vanadium

Zinc

Associated samples MP43029: J85904-1A, J85904-2A

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

7.5.4

7

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP43042
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 03/28/08 04/01/08

Metal	RL	IDL	MB raw	final	MB raw	final
Aluminum	20	2.6	anr			
Antimony	1.0	.14	anr			
Arsenic	2.0	.12	anr			
Barium	20	.03	anr			
Beryllium	0.50	.01	anr			
Boron	10	.15				
Cadmium	0.50	.04	anr			
Calcium	500	3.1	anr			
Chromium	1.0	.03	anr			
Cobalt	5.0	.03	anr			
Copper	2.5	.13	anr			
Iron	10	.83	anr			
Lead	2.0	.12			~0.18	<2.0
Magnesium	500	2.4	anr			
Manganese	1.5	.01	anr			
Molybdenum	2.0	.04				
Nickel	4.0	.03	anr			
Palladium	5.0	.3				
Potassium	1000	5	anr			
Selenium	2.0	.11	anr			
Silicon	20	.36				
Silver	1.0	.06	anr			
Sodium	1000	.9	anr			
Strontium	1.0	.01				
Thallium	1.0	.08	anr			
Tin	5.0	.08				
Titanium	1.0	.03				
Vanadium	5.0	.04	anr			
Zinc	2.0	.1	anr			

Associated samples MP43042: J85904-1, J85904-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J85904
Account: EHTXF - Entartt Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP43042
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/01/08

Metal	J86496-1 Original MS	SpikeLot MP4304	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	263	373	108	65.0N(a) 75-125
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	anr			
Zinc	anr			

Associated samples MP43042: J85904-1, J85904-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: J85904
Account: EHTXF - Entact Houston
Project: Chevron, Berth Amboy

QC Batch ID: MP43042
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 04/01/08

Metal	J86496-1 Original MSB	Spike Lot MPIR51	% Rec	MSD RPD	QC Limit
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	anr				
Calcium	anr				
Chromium	anr				
Cobalt	anr				
Copper	anr				
Iron	anr				
Lead	265	372	107	102.2	11.1 20
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	anr				
Palladium					
Potassium	anr				
Selenium	anr				
Silicon					
Silver	anr				
Sodium	anr				
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	anr				

Associated samples MP43042: J85904-1, J85904-2

Results < 10% are shown as zero for calculation purposes
(*) Outside of QC Limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: J85904
Account: EMTX - Entact Houston
Project: Chevron, Perth Amboy

QC Batch ID: MP43042
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 03/28/08

03/28/08

Metal	BSB Result	SpikeLot MP1RS1	% Rec	QC Limits	LCS Result	SpikeLot MPLC565408	% Rec	QC Limits
Aluminum	anr							
Antimony	anr							
Arsenic	anr							
Barium	anr							
Beryllium	anr							
Boron								
Cadmium	anr							
Calcium	anr							
Chromium	anr							
Cobalt	anr							
Copper	anr							
Iron	anr							
Lead								
Magnesium	anr							
Manganese	anr							
Molybdenum								
Nickel	anr							
Palladium								
Potassium	anr							
Selenium	anr							
Silicon								
Silver	anr							
Sodium	anr							
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium	anr							
Zinc	anr							

Associated samples MP43042: J85904-1, J85904-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

7.6.3

7

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: J85904
 Account: EHTXF - Entegris Houston
 Project: Chevron, Perth Amboy

QC Batch ID: MP43042
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 04/01/08 04/01/08

Metal	ESP Result	Spiketot MP10S2	% Rec	QC Limits	LCS Result	Spiketot MPLC540*	% Rec	QC Limits
Aluminum	anr							
Antimony	anr							
Arsenic	anr							
Barium	anr							
Beryllium	anr							
Boron								
Cadmium	anr							
Calcium	anr							
Chromium	anr							
Cobalt	anr							
Copper	anr							
Iron	anr							
Lead	99.5	100	99.5	80-120	81.0	72.2	112.2	82-118
Magnesium	anr							
Manganese	anr							
Molybdenum								
Nickel	anr							
Palladium								
Potassium	any							
Selenium	anr							
Silicon								
Silver	anr							
Sodium	anr							
Strontium								
Thallium	any							
Tin								
Titanium								
Vanadium	anr							
Zinc	anr							

Associated Samples MP43042: J85904-1, J85904-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: J85904
 Account: EMTXF - Entact Houston
 Project: Chevron, Perth Amboy

QC Batch ID: MP43042
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 04/01/08

Metal	J86496-1			QC	
	Original	EDL 1:5	RPD	Limits	
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Boron					
Cadmium	anr				
Calcium	anr				
Chromium	anr				
Cobalt	anr				
Copper	anr				
Iron	anr				
Lead	2420	2650	9.7	0-10	
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	anr				
Palladium					
Potassium	anr				
Selenium	anr				
Silicon					
Silver	anr				
Sodium	anr				
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium	anr				
Zinc	anr				

Associated samples MP43042: J85904-1, J85904-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested



General Chemistry

QC Data Summaries

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Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Page 1 of 1

Job Number: J85904

Account: EHTXF Entact Houston

Project: Chevron, Perth Amboy

Sample: J85904-1	Analyzed: 01-APR-08 by TS	Method: EPA 160.3 M
ClientID: S2197RB2		

Wet Weight (Total)	25.12	g
Tare Weight	19.79	g
Dry Weight (Total)	24.54	g
Moisture, Percent	10.9	%

Sample: J85904-2	Analyzed: 01-APR-08 by TS	Method: EPA 160.3 M
ClientID: S2387RF4		

Wet Weight (Total)	25.9	g
Tare Weight	20.62	g
Dry Weight (Total)	24.57	g
Moisture, Percent	25.2	%

8.1

8

APPENDIX B: LABORATORY BENCH DATA

MOISTURE /SOLIDS CONTENT WORKSHEET	Project	CVX108 Perth Amboy
	Date	4/11/2008
	Technician	Maggie Benningfield

Sample ID	S2197RB2
------------------	----------

Container Tare (g)	4.1
Container + Sample (g)	232.2
Initial Sample (g) [W_T]	228.10

No	Date	Time	Temp	Container + Sample (g)
1	4/11/2008	1110	110	232.2
2	4/11/2008	1417	110	207.6
3	4/11/2008	1651	110	207.3
4	4/12/2008	800	112	207.1
5	4/12/2008	1000	110	207.0
6	4/12/2008	1430	110	207.0
Final Container + Sample (g)				207.00
Mass of Solids (g) [W_D]				202.90
Mass of Water (g) [W_W]				25.20
Moisture Content (%) [W_W/W_D]				12.42%
% Solids (%) [W_D/W_T]				88.95%
% Moisture (%) [W_W/W_T]				11.05%

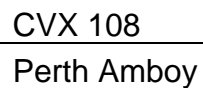
Sample ID	S2387RF4
------------------	----------

Container Tare (g)	4.2
Container + Sample (g)	222.7
Initial Sample (g) [W_T]	218.50

No	Date	Time	Temp	Container + Sample (g)
1	4/11/2008	1100	110	222.7
2	4/11/2008	1416	110	181.6
3	4/11/2008	1650	110	169.1
4	4/12/2008	800	112	168.2
5	4/12/2008	1000	110	168.2
6	4/12/2008	1430	110	168.2
Final Container + Sample (g)				168.20
Mass of Solids (g) [W_D]				164.00
Mass of Water (g) [W_W]				54.50
Moisture Content (%) [W_W/W_D]				33.23%
% Solids (%) [W_D/W_T]				75.06%
% Moisture (%) [W_W/W_T]				24.94%

BULK DENSITY WORK SHEETVolume of Cup (V_C) = 90 cm³

	A	B	C	D	E	F
Sample ID / Description	Gross Weight (grams)	Cup Tare (grams)	Net Weight [A-B] (grams)	Cup Density [C/ V_C] (g/cm ³)	Specific Gravity	Bulk Density [Ex62.4] (pcf)
S2387RF4	167	2.6	164.4	1.8267	1.8267	113.99
S2197RB2	145.4	2.5	142.9	1.5878	1.5878	99.08



Page 1 of 1

[illegible]

APPENDIX C: INDEPENDENT ANALITICAL LABORATORY REPORTS

ANALYTICAL RESULTS

Prepared for:

Chevron
1200 State Street
Perth Amboy NJ 08861

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1086602. Samples arrived at the laboratory on Tuesday, Apr 15 2008.

The project for this group is CVX 108 Perth Amboy.

The PO# for this sample group is 0015010693.

The release number for this sample group is LAVORERIO.

<u>Sample No.</u>	<u>Collected</u>	<u>Client Description</u>
5333118	4/14/2008	S2197RB2 Contaminated Soil Sample CVX 108 Perth Amboy
5333137	4/14/2008	S2387RF4-Enviroblend10-41408 Soil + 10% Enviroblend 80/20 Sample TCLP NON-VOLATILE EXTRACTION CVX 108 Perth Amboy
5333120	4/14/2008	S2197RB2-TSP5-41408 Soil + 5% TSP Sample CVX 108 Perth Amboy
5333121	4/14/2008	S2197RB2-TSP5-41408 Soil + 5% TSP Sample TCLP NON-VOLATILE EXTRACTION CVX 108 Perth Amboy
5333122	4/14/2008	S2197RB2-TSP10-41408 Soil + 10% TSP Sample CVX 108 Perth Amboy
5333123	4/14/2008	S2197RB2-TSP10-41408 Soil + 10% TSP Sample TCLP NON-VOLATILE EXTRACTION CVX 108 Perth Amboy
5333124	4/14/2008	S2197RB2-Enviroblend_5-41408 Soil + 5% Enviroblend 80/20 Sample CVX 108 Perth Amboy
5333125	4/14/2008	S2197RB2-Enviroblend_5-41408 Soil + 5% Enviroblend 80/20 Sample TCLP NON-VOLATILE EXTRACTION CVX 108 Perth Amboy
5333126	4/14/2008	S2197RB2-Enviroblend7.5-41408 Soil + 7.5% Enviroblend 80/20 Sample CVX 108 Perth Amboy
5333127	4/14/2008	S2197RB2-Enviroblend7.5-41408 Soil + 7.5% Enviroblend 80/20 TCLP NON-VOLATILE EXTRACTION

ANALYTICAL RESULTS

Prepared for:

Chevron
1200 State Street
Perth Amboy NJ 08861

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

5333128	4/14/2008	CVX 108 Perth Amboy S2387RF4-Raw Contaminated Soil Sample
5333129	4/14/2008	CVX 108 Perth Amboy S2387RF4-Raw Contaminated Soil Sample TCLP NON-VOLATILE EXTRACTION
5333130	4/14/2008	CVX 108 Perth Amboy S2387RF4-TSP5-41408 Soil + 5% TSP Sample
5333131	4/14/2008	CVX 108 Perth Amboy S2387RF4-TSP5-41408 Soil + 5% TSP Sample TCLP NON-VOLATILE EXTRACTION
5333132	4/14/2008	CVX 108 Perth Amboy S2387RF4-TSP10-41408 Soil + 10% TSP Sample
5333133	4/14/2008	CVX 108 Perth Amboy S2387RF4-TSP10-41408 Soil + 10% TSP Sample TCLP NON-VOLATILE EXTRACTION
5333134	4/14/2008	CVX 108 Perth Amboy S2387RF4-Enviblend_5-41408 Soil + 5% Enviroblend 80/20 Sample
5333135	4/14/2008	CVX 108 Perth Amboy S2387RF4-Enviblend_5-41408 Soil + 5% Enviroblend 80/20 Sample TCLP NON-VOLATILE EXTRACTION
5333136	4/14/2008	CVX 108 Perth Amboy S2387RF4-Enviblend10-41408 Soil + 10% Enviroblend 80/20 Sample
5333119	4/14/2008	CVX 108 Perth Amboy S2197RB2 Contaminated Soil Sample TCLP NON-VOLATILE EXTRACTION CVX 108 Perth Amboy

METHODOLOGY

The specified methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicle.

ELECTRONIC COPY TO
1 COPY TO

URS Corporation
Data Package Group

Attn: Jerry Vorbach

ANALYTICAL RESULTS

Prepared for:

Chevron
1200 State Street
Perth Amboy NJ 08861

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

1 COPY TO

ENTACT HOUSTON

Attn: Maggie Benningfield

Questions? Contact your Client Services Representative
Wendy A Kozma at (717)656-2300

Respectfully Submitted,



Chad A. Moline
Group Leader

Chevron
Project: CVX 108 Perth Amboy
SDG: RFQ95

Report Date: 5/9/2008 8:42
Submit Date: 4/15/2008 9:40

Analysis Name	Units	5333118	MDL	5333120	MDL	5333122	MDL
		S2197RB2		S2197RB2		S2197RB2	
		Result		Result		Result	
Lead	ug/kg	1,560,000.	2,710.	1,510,000.	2,840.	572,000.	546.
Moisture	%	9.6	0.50	14.5	0.50	12.9	0.50
tetraethyl lead	ug/kg	150. J	74.	150. J	78.	110. J	77.
Analysis Name	Units	5333124	MDL	5333126	MDL	5333128	MDL
		S2197RB2		S2197RB2		S2387RF4	
		Result		Result		Result	
Lead	ug/kg	1,070,000.	535.	872,000.	545.	143,000,000.	127,000.
Moisture	%	10.2	0.50	11.0	0.50	23.5	0.50
tetraethyl lead	ug/kg	150. J	74.	100. J	75.	1,300.	87.
Analysis Name	Units	5333130	MDL	5333132	MDL	5333134	MDL
		S2387RF4		S2387RF4		S2387RF4	
		Result		Result		Result	
Lead	ug/kg	144,000,000.	129,000.	126,000,000.	63,100.	115,000,000.	59,900.
Moisture	%	24.5	0.50	24.6	0.50	19.8	0.50
tetraethyl lead	ug/kg	1,300.	88.	1,700.	88.	1,400.	83.
Analysis Name	Units	5333136	MDL				
		S2387RF4					
		Result					
Lead	ug/kg	97,200,000.	59,400.				
Moisture	%	18.3	0.50				
tetraethyl lead	ug/kg	1,600.	410.				
Analysis Name	Units	5333119	MDL	5333121	MDL	5333123	MDL
		S2197RB2		S2197RB2		S2197RB2	
		Result		Result		Result	
Lead	mg/l	0.312	0.0069	N.D.	0.0069	0.0141 J	0.0069
Analysis Name	Units	5333125	MDL	5333127	MDL	5333129	MDL
		S2197RB2		S2197RB2		S2387RF4	
		Result		Result		Result	
Lead	mg/l	N.D.	0.0069	N.D.	0.0069	1,530.	1.38
Analysis Name	Units	5333131	MDL	5333133	MDL	5333135	MDL
		S2387RF4		S2387RF4		S2387RF4	
		Result		Result		Result	
Lead	mg/l	271.	0.345	0.155	0.0069	0.740	0.0069
Analysis Name	Units	5333137	MDL				
		S2387RF4					
		Result					

Chevron
Project: CVX 108 Perth Amboy
SDG: RFQ95

Report Date: 5/9/2008 8:42
Submit Date: 4/15/2008 9:40

		Result	MDL
Lead	mg/l	1.07	0.0069

CAT No.	Analysis Name	Method	Trial ID	Analysis Date/Time	Analyst	Dilution
5333118 S2197RB2 Contaminated Soil Sample						
06955	Lead	SW-846 6010B	1	4/22/08 0033	Choon Y Tian	5
00111	Moisture	SM20 2540 G	1	4/17/08 1534	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	4/24/08 1803	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/24/08 0815	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/16/08 2105	Annamaria Stipkovits	1
5333119 S2197RB2 Contaminated Soil Sample						
07055	Lead	SW-846 6010B	1	4/26/08 1022	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/22/08 1240	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	4/23/08 1922	James L Mertz	1
5333120 S2197RB2-TSP5-41408 Soil + 5% TSP Sample						
06955	Lead	SW-846 6010B	1	4/22/08 0051	Choon Y Tian	5
00111	Moisture	SM20 2540 G	1	4/17/08 1534	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	4/24/08 1915	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/24/08 0815	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/16/08 2105	Annamaria Stipkovits	1
5333121 S2197RB2-TSP5-41408 Soil + 5% TSP Sample						
07055	Lead	SW-846 6010B	1	4/26/08 1033	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/22/08 1240	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	4/23/08 1922	James L Mertz	1
5333122 S2197RB2-TSP10-41408 Soil + 10% TSP Sample						
06955	Lead	SW-846 6010B	1	4/22/08 0054	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	4/17/08 1534	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	4/24/08 1940	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/24/08 0815	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/16/08 2105	Annamaria Stipkovits	1
5333123 S2197RB2-TSP10-41408 Soil + 10% TSP Sample						
07055	Lead	SW-846 6010B	1	4/26/08 1037	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/22/08 1240	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	4/23/08 1922	James L Mertz	1
5333124 S2197RB2-Enviblend_5-41408 Soil + 5% Enviroblend						
06955	Lead	SW-846 6010B	1	4/22/08 0104	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	4/17/08 1534	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	4/24/08 2004	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/24/08 0815	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/16/08 2105	Annamaria Stipkovits	1
5333125 S2197RB2-Enviblend_5-41408 Soil + 5% Enviroblend						
07055	Lead	SW-846 6010B	1	4/26/08 1040	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/22/08 1240	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	4/23/08 1922	James L Mertz	1

CAT No.	Analysis Name	Method	Trial ID	Analysis Date/Time	Analyst	Dilution
5333126	S2197RB2-Enviblend7.5-41408 Soil + 7.5%					
06955	Lead	SW-846 6010B	1	4/22/08 0107	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	4/17/08 1534	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	4/24/08 2028	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/24/08 0815	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/16/08 2105	Annamaria Stipkovits	1
5333127	S2197RB2-Enviblend7.5-41408 Soil + 7.5%					
07055	Lead	SW-846 6010B	1	4/26/08 1044	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/22/08 1240	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	4/23/08 1922	James L Mertz	1
5333128	S2387RF4-Raw Contaminated Soil Sample					
06955	Lead	SW-846 6010B	1	4/25/08 0425	Choon Y Tian	200
00111	Moisture	SM20 2540 G	1	4/17/08 1534	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	4/24/08 2052	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/24/08 0815	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/16/08 2105	Annamaria Stipkovits	1
5333129	S2387RF4-Raw Contaminated Soil Sample					
07055	Lead	SW-846 6010B	1	4/26/08 1048	Joanne M Gates	200
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/22/08 1240	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	4/23/08 1922	James L Mertz	1
5333130	S2387RF4-TSP5-41408 Soil + 5% TSP Sample					
06955	Lead	SW-846 6010B	1	4/25/08 0429	Choon Y Tian	200
00111	Moisture	SM20 2540 G	1	4/17/08 1534	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	4/24/08 2116	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/24/08 0815	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/16/08 2105	Annamaria Stipkovits	1
5333131	S2387RF4-TSP5-41408 Soil + 5% TSP Sample					
07055	Lead	SW-846 6010B	1	4/26/08 1001	Joanne M Gates	50
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/22/08 1240	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	4/23/08 1922	James L Mertz	1
5333132	S2387RF4-TSP10-41408 Soil + 10% TSP Sample					
06955	Lead	SW-846 6010B	1	4/22/08 0116	Choon Y Tian	100
00111	Moisture	SM20 2540 G	1	4/17/08 1534	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	4/24/08 2140	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/24/08 0815	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/16/08 2105	Annamaria Stipkovits	1
5333133	S2387RF4-TSP10-41408 Soil + 10% TSP Sample					
07055	Lead	SW-846 6010B	1	4/26/08 1051	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/22/08 1240	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	4/23/08 1922	James L Mertz	1

CAT No.	Analysis Name	Method	Trial ID	Analysis Date/Time	Analyst	Dilution
5333134	S2387RF4-Enviblend_5-41408 Soil + 5% Enviroblend					
06955	Lead	SW-846 6010B	1	4/22/08 0119	Choon Y Tian	100
00111	Moisture	SM20 2540 G	1	4/17/08 1534	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	4/24/08 2205	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/24/08 0815	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/16/08 2105	Annamaria Stipkovits	1
5333135	S2387RF4-Enviblend_5-41408 Soil + 5% Enviroblend					
07055	Lead	SW-846 6010B	1	4/26/08 1055	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/22/08 1240	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	4/23/08 1922	James L Mertz	1
5333136	S2387RF4-Enviblend10-41408 Soil + 10% Enviroblend					
06955	Lead	SW-846 6010B	1	4/22/08 0122	Choon Y Tian	100
00111	Moisture	SM20 2540 G	1	4/17/08 1534	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	4/24/08 2229	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/24/08 0815	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/16/08 2105	Annamaria Stipkovits	1
5333137	S2387RF4-Enviblend10-41408 Soil + 10% Enviroblend					
07055	Lead	SW-846 6010B	1	4/26/08 1058	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/22/08 1240	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	4/23/08 1922	James L Mertz	1

Client Name: Chevron

Group Number: 1086602

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD
Batch number: 081075708002	Sample number(s): 5333118,5333120,5333122,5333124,5333126,5333128,5333130,5333132,5333134,5333136							
Lead	N.D.	490.	ug/kg	96		90-110		
Batch number: 08108820004A	Sample number(s): 5333118,5333120,5333122,5333124,5333126,5333128,5333130,5333132,5333134,5333136							
Moisture				100		99-101		
Batch number: 081145705002	Sample number(s): 5333119,5333121,5333123,5333125,5333127,5333129,5333131,5333133,5333135,5333137							
Lead	N.D.	0.0069	mg/l	111		90-113		
Batch number: 08114SLC026	Sample number(s): 5333118,5333120,5333122,5333124,5333126,5333128,5333130,5333132,5333134,5333136							
tetraethyl lead	N.D.	67.	ug/kg	97		70-130		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
Batch number: 081075708002	Sample number(s): 5333118,5333120,5333122,5333124,5333126,5333128,5333130,5333132,5333134,5333136								
Lead	28128 (2	28128 (2	75-125	42*	20	1,410,000.	6,730,000.	131*	20
Batch number: 08108820004A	Sample number(s): 5333118,5333120,5333122,5333124,5333126,5333128,5333130,5333132,5333134,5333136								

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Moisture 7.8 7.8 0 15

Batch number: 081145705002

Sample number(s):

5333119,5333121,5333123,5333125,5333127,5333129,5333131,5333133,5333135,5333137

Lead -3153 (2) -3153 (2) 75-125 1 20 271. 268. 1 20

Batch number: 08114SLC026

Sample number(s):

5333118,5333120,5333122,5333124,5333126,5333128,5333130,5333132,5333134,5333136

tetraethyl lead 102 115 70-130 12 30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Organolead in Soil by GC/MS

Batch number: 08114SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5333118	112	107	129
5333120	119	108	162*
5333122	125	130*	153*
5333124	109	109	160*
5333126	122	127*	162*
5333128	125	46*	57
5333130	68	39*	55
5333132	54	38*	59
5333134	52	45*	58
5333136	93	151*	205*
Blank	108	101	104
LCS	110	99	96
MS	119	102	150*
MSD	127	140*	144*
Limits:	47-128	55-123	49-134

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

QC Comment

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

5333118 S2197RB2 Contaminated Soil Sample

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

5333119 S2197RB2 Contaminated Soil Sample

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

5333120 S2197RB2-TSP5-41408 Soil + 5% TSP Sample

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

5333121 S2197RB2-TSP5-41408 Soil + 5% TSP Sample

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

5333122 S2197RB2-TSP10-41408 Soil + 10% TSP Sample

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

5333123 S2197RB2-TSP10-41408 Soil + 10% TSP Sample

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

5333124 S2197RB2-Enviblend_5-41408 Soil + 5% Enviroblend

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

5333125 S2197RB2-Enviblend_5-41408 Soil + 5% Enviroblend

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

5333126 S2197RB2-Enviblend7.5-41408 Soil + 7.5%

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

5333127 S2197RB2-Enviblend7.5-41408 Soil + 7.5%

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

5333128 S2387RF4-Raw Contaminated Soil Sample

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

5333129 S2387RF4-Raw Contaminated Soil Sample

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

5333130 S2387RF4-TSP5-41408 Soil + 5% TSP Sample

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

5333131 S2387RF4-TSP5-41408 Soil + 5% TSP Sample

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

5333132 S2387RF4-TSP10-41408 Soil + 10% TSP Sample

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

5333133 S2387RF4-TSP10-41408 Soil + 10% TSP Sample

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

5333134 S2387RF4-Enviblend_5-41408 Soil + 5% Enviroblend

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

5333135 S2387RF4-Enviblend_5-41408 Soil + 5% Enviroblend

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

5333136 S2387RF4-Enviblend10-41408 Soil + 10% Enviroblend

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Due to sample matrix interferences observed during the extraction, the normal reporting limits were not attained.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

5333137 S2387RF4-Enviblend10-41408 Soil + 10% Enviroblend

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

ANALYTICAL RESULTS

Prepared for:

Chevron
1200 State Street
Perth Amboy NJ 08861

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425**SAMPLE GROUP**

The sample group for this submittal is 1086602. Samples arrived at the laboratory on Tuesday, April 15, 2008. The PO# for this group is 0015010693 and the release number is LAVORERIO.

Client Description**Lancaster Labs Number**

S2197RB2 Contaminated Soil Sample	5333118
S2197RB2 Contaminated Soil Sample	5333119
S2197RB2-TSP5-41408 Soil + 5% TSP Sample	5333120
S2197RB2-TSP5-41408 Soil + 5% TSP Sample	5333121
S2197RB2-TSP10-41408 Soil + 10% TSP Sample	5333122
S2197RB2-TSP10-41408 Soil + 10% TSP Sample	5333123
S2197RB2-Enviblend_5-41408 Soil + 5% Enviroblend	5333124
S2197RB2-Enviblend_5-41408 Soil + 5% Enviroblend	5333125
S2197RB2-Enviblend7.5-41408 Soil + 7.5%	5333126
S2197RB2-Enviblend7.5-41408 Soil + 7.5%	5333127
S2387RF4-Raw Contaminated Soil Sample	5333128
S2387RF4-Raw Contaminated Soil Sample	5333129
S2387RF4-TSP5-41408 Soil + 5% TSP Sample	5333130
S2387RF4-TSP5-41408 Soil + 5% TSP Sample	5333131
S2387RF4-TSP10-41408 Soil + 10% TSP Sample	5333132
S2387RF4-TSP10-41408 Soil + 10% TSP Sample	5333133
S2387RF4-Enviblend_5-41408 Soil + 5% Enviroblend	5333134
S2387RF4-Enviblend_5-41408 Soil + 5% Enviroblend	5333135
S2387RF4-Enviblend10-41408 Soil + 10% Enviroblend	5333136
S2387RF4-Enviblend10-41408 Soil + 10% Enviroblend	5333137

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

ELECTRONIC URS Corporation
COPY TO
1 COPY TO Data Package Group
1 COPY TO ENTACT HOUSTON

Attn: Jerry Vorbach

Attn: Maggie Benningfield

Questions? Contact your Client Services Representative
Wendy A Kozma at (717) 656-2300

Respectfully Submitted,



Chad A. Moline
Group Leader

Lancaster Laboratories Sample No. SW5333118
Group No. 1086602
**S2197RB2 Contaminated Soil Sample
CVX 108 Perth Amboy**

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40
Reported: 05/09/2008 at 08:42
Discard: 05/24/2008

Chevron
1200 State Street
Perth Amboy NJ 08861

RB2-- SDG#: RFQ95-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06955	Lead	7439-92-1	1,560,000.	2,710.	ug/kg	5
00111	Moisture	n.a.	9.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	150. J	74.	ug/kg	1

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010B	1	04/22/2008 00:33	Choon Y Tian	5
00111	Moisture	SM20 2540 G	1	04/17/2008 15:34	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	04/24/2008 18:03	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/24/2008 08:15	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/16/2008 21:05	Annamaria Stipkovits	1



Analysis Report

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Lancaster Laboratories Sample No. TL5333119

Group No. 1086602

S2197RB2 Contaminated Soil Sample

TCLP NON-VOLATILE EXTRACTION

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Chevron

Reported: 05/09/2008 at 08:42

1200 State Street

Discard: 05/24/2008

Perth Amboy NJ 08861

NRB2- SDG#: RFQ95-02

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Units	Dilution Factor
				Detection Limit		
07055	Lead	7439-92-1	0.312	0.0069	mg/l	1

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	04/26/2008 10:22	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/22/2008 12:40	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	04/23/2008 19:22	James L Mertz	1

Lancaster Laboratories Sample No. SW5333120
Group No. 1086602
**S2197RB2-TSP5-41408 Soil + 5% TSP Sample
CVX 108 Perth Amboy**

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40
Reported: 05/09/2008 at 08:42
Discard: 05/24/2008

Chevron
1200 State Street
Perth Amboy NJ 08861

RB2T5 SDG#: RFQ95-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06955	Lead	7439-92-1	1,510,000.	2,840.	ug/kg	5
00111	Moisture	n.a.	14.5	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	150. J	78.	ug/kg	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010B	1	04/22/2008 00:51	Choon Y Tian	5
00111	Moisture	SM20 2540 G	1	04/17/2008 15:34	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	04/24/2008 19:15	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/24/2008 08:15	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/16/2008 21:05	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. TL5333121

Group No. 1086602

S2197RB2-TSP5-41408 Soil + 5% TSP Sample

TCLP NON-VOLATILE EXTRACTION

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Chevron

Reported: 05/09/2008 at 08:42

1200 State Street

Discard: 05/24/2008

Perth Amboy NJ 08861

NR2T5 SDG#: RFQ95-04

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	04/26/2008 10:33	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/22/2008 12:40	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	04/23/2008 19:22	James L Mertz	1

Lancaster Laboratories Sample No. SW5333122
Group No. 1086602
**S2197RB2-TSP10-41408 Soil + 10% TSP Sample
CVX 108 Perth Amboy**

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40
Reported: 05/09/2008 at 08:42
Discard: 05/24/2008

Chevron
1200 State Street
Perth Amboy NJ 08861

B210- SDG#: RFQ95-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06955	Lead	7439-92-1	572,000.	546.	ug/kg	1
00111	Moisture	n.a.	12.9	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	110. J	77.	ug/kg	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					

State of New Jersey Lab Certification No. PA011
The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010B	1	04/22/2008 00:54	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	04/17/2008 15:34	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	04/24/2008 19:40	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/24/2008 08:15	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/16/2008 21:05	Annamaria Stipkovits	1



Analysis Report

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Lancaster Laboratories Sample No. TL5333123

Group No. 1086602

S2197RB2-TSP10-41408 Soil + 10% TSP Sample

TCLP NON-VOLATILE EXTRACTION

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Chevron

Reported: 05/09/2008 at 08:42

1200 State Street

Discard: 05/24/2008

Perth Amboy NJ 08861

NB210 SDG#: RFQ95-06

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Units	Dilution Factor
				Detection Limit		
07055	Lead	7439-92-1	0.0141 J	0.0069	mg/l	1

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	04/26/2008 10:37	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/22/2008 12:40	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	04/23/2008 19:22	James L Mertz	1



Analysis Report

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Lancaster Laboratories Sample No. SW5333124

Group No. 1086602

S2197RB2-Enviblend_5-41408 Soil + 5% Enviroblend

80/20 Sample

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Chevron

Reported: 05/09/2008 at 08:42

1200 State Street

Discard: 05/24/2008

Perth Amboy NJ 08861

RB2E5 SDG#: RFQ95-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06955	Lead	7439-92-1	1,070,000.	535.	ug/kg	1
00111	Moisture	n.a.	10.2	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	150. J	74.	ug/kg	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010B	1	04/22/2008 01:04	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	04/17/2008 15:34	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	04/24/2008 20:04	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/24/2008 08:15	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/16/2008 21:05	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. TL5333125

Group No. 1086602

S2197RB2-Enviblend 5-41408 Soil + 5% Enviroblend

80/20 Sample TCLP NON-VOLATILE EXTRACTION

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Chevron

Reported: 05/09/2008 at 08:42

1200 State Street

Discard: 05/24/2008

Perth Amboy NJ 08861

NB2E5 SDG#: RFQ95-08

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	04/26/2008 10:40	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/22/2008 12:40	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	04/23/2008 19:22	James L Mertz	1



Analysis Report

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Lancaster Laboratories Sample No. SW5333126

Group No. 1086602

S2197RB2-Enviblend7.5-41408 Soil + 7.5%

Enviroblend 80/20 Sample

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Reported: 05/09/2008 at 08:42

Discard: 05/24/2008

Chevron

1200 State Street

Perth Amboy NJ 08861

RB75- SDG#: RFQ95-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method		Units	Dilution Factor
				Detection	Limit		
06955	Lead	7439-92-1	872,000.	545.		ug/kg	1
00111	Moisture	n.a.	11.0	0.50		%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
04221	Organolead in Soil by GC/MS						
04223	tetraethyl lead	78-00-2	100. J	75.		ug/kg	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
06955	Lead	SW-846 6010B	1	04/22/2008 01:07	Choon Y Tian	1
00111	Moisture	SM20 2540 G	1	04/17/2008 15:34	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	04/24/2008 20:28	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/24/2008 08:15	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/16/2008 21:05	Annamaria Stipkovits	1



Analysis Report

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Lancaster Laboratories Sample No. TL5333127

Group No. 1086602

S2197RB2-Enviblend7.5-41408 Soil + 7.5%
Enviroblend 80/20 TCLP NON-VOLATILE EXTRACTION
CVX 108 Perth Amboy
Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40
Reported: 05/09/2008 at 08:42
Discard: 05/24/2008

Chevron
1200 State Street
Perth Amboy NJ 08861

NRB75 SDG#: RFQ95-10

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	N.D.	0.0069	mg/l	1

State of New Jersey Lab Certification No. PA011
The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

If the analysis is for determination of Hazardous Waste Characteristics,
see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality
Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	04/26/2008 10:44	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/22/2008 12:40	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	04/23/2008 19:22	James L Mertz	1

Lancaster Laboratories Sample No. SW5333128
Group No. 1086602
**S2387RF4-Raw Contaminated Soil Sample
CVX 108 Perth Amboy**

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40
Reported: 05/09/2008 at 08:42
Discard: 05/24/2008

Chevron
1200 State Street
Perth Amboy NJ 08861

7RF4R SDG#: RFQ95-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06955	Lead	7439-92-1	143,000,000.	127,000.	ug/kg	200
00111	Moisture	n.a.	23.5	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	1,300.	87.	ug/kg	1
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatiles analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.					

State of New Jersey Lab Certification No. PA011
The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010B	1	04/25/2008 04:25	Choon Y Tian	200
00111	Moisture	SM20 2540 G	1	04/17/2008 15:34	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	04/24/2008 20:52	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/24/2008 08:15	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/16/2008 21:05	Annamaria Stipkovits	1



Analysis Report

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Lancaster Laboratories Sample No. TL5333129

Group No. 1086602

S2387RF4-Raw Contaminated Soil Sample

TCLP NON-VOLATILE EXTRACTION

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Chevron

Reported: 05/09/2008 at 08:42

1200 State Street

Discard: 05/24/2008

Perth Amboy NJ 08861

NRF4R SDG#: RFQ95-12

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	1,530.	1.38	mg/l	200

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	04/26/2008 10:48	Joanne M Gates	200
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/22/2008 12:40	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	04/23/2008 19:22	James L Mertz	1



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Lancaster Laboratories Sample No. SW5333130

Group No. 1086602

S2387RF4-TSP5-41408 Soil + 5% TSP Sample
CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40
Reported: 05/09/2008 at 08:42
Discard: 05/24/2008

Chevron
1200 State Street
Perth Amboy NJ 08861

RF4-5 SDG#: RFQ95-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method	Units	Dilution Factor
				Detection Limit		
06955	Lead	7439-92-1	144,000,000.	129,000.	ug/kg	200
00111	Moisture	n.a.	24.5	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	1,300.	88.	ug/kg	1
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatiles analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.					

State of New Jersey Lab Certification No. PA011
The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
06955	Lead	SW-846 6010B	1	04/25/2008 04:29	Choon Y Tian	200
00111	Moisture	SM20 2540 G	1	04/17/2008 15:34	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	04/24/2008 21:16	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/24/2008 08:15	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/16/2008 21:05	Annamaria Stipkovits	1



Analysis Report

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Lancaster Laboratories Sample No. TL5333131

Group No. 1086602

S2387RF4-TSP5-41408 Soil + 5% TSP Sample

TCLP NON-VOLATILE EXTRACTION

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Reported: 05/09/2008 at 08:42

Discard: 05/24/2008

Chevron

1200 State Street

Perth Amboy NJ 08861

NRF45 SDG#: RFQ95-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	271.	0.345	mg/l	50

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	04/26/2008 10:01	Joanne M Gates	50
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/22/2008 12:40	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	04/23/2008 19:22	James L Mertz	1



Analysis Report

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Lancaster Laboratories Sample No. SW5333132

Group No. 1086602

S2387RF4-TSP10-41408 Soil + 10% TSP Sample
CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40
Reported: 05/09/2008 at 08:42
Discard: 05/24/2008

Chevron
1200 State Street
Perth Amboy NJ 08861

F4T10 SDG#: RFQ95-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method	Units	Dilution Factor
				Detection Limit		
06955	Lead	7439-92-1	126,000,000.	63,100.	ug/kg	100
00111	Moisture	n.a.	24.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	1,700.	88.	ug/kg	1
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatiles analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.					

State of New Jersey Lab Certification No. PA011
The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
06955	Lead	SW-846 6010B	1	04/22/2008 01:16	Choon Y Tian	100
00111	Moisture	SM20 2540 G	1	04/17/2008 15:34	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	04/24/2008 21:40	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/24/2008 08:15	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/16/2008 21:05	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. TL5333133

Group No. 1086602

S2387RF4-TSP10-41408 Soil + 10% TSP Sample

TCLP NON-VOLATILE EXTRACTION

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Chevron

Reported: 05/09/2008 at 08:42

1200 State Street

Discard: 05/24/2008

Perth Amboy NJ 08861

N4T10 SDG#: RFQ95-16

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	0.155	0.0069	mg/l	1

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	04/26/2008 10:51	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/22/2008 12:40	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	04/23/2008 19:22	James L Mertz	1

Lancaster Laboratories Sample No. SW5333134
Group No. 1086602
S2387RF4-Enviblend_5-41408 Soil + 5% Enviroblend
80/20 Sample
CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Chevron

Reported: 05/09/2008 at 08:42

1200 State Street

Discard: 05/24/2008

Perth Amboy NJ 08861

4E-5- SDG#: RFQ95-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06955	Lead	7439-92-1	115,000,000.	59,900.	ug/kg	100
00111	Moisture	n.a.	19.8	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	1,400.	83.	ug/kg	1
	Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatiles analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.					

The GC/MS semivolatiles internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010B	1	04/22/2008 01:19	Choon Y Tian	100
00111	Moisture	SM20 2540 G	1	04/17/2008 15:34	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	04/24/2008 22:05	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/24/2008 08:15	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/16/2008 21:05	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. TL5333135

Group No. 1086602

S2387RF4-Enviblend_5-41408 Soil + 5% Enviroblend

80/20 Sample TCLP NON-VOLATILE EXTRACTION

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Chevron

Reported: 05/09/2008 at 08:42

1200 State Street

Discard: 05/24/2008

Perth Amboy NJ 08861

N4E5- SDG#: RFQ95-18

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	0.740	0.0069	mg/l	1

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	04/26/2008 10:55	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/22/2008 12:40	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	04/23/2008 19:22	James L Mertz	1



Analysis Report

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Lancaster Laboratories Sample No. SW5333136

Group No. 1086602

S2387RF4-Enviblend10-41408 Soil + 10% Enviroblend

80/20 Sample

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Chevron

Reported: 05/09/2008 at 08:42

1200 State Street

Discard: 05/24/2008

Perth Amboy NJ 08861

4E10- SDG#: RFQ95-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06955	Lead	7439-92-1	97,200,000.	59,400.	ug/kg	100
00111	Moisture	n.a.	18.3	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	1,600.	410.	ug/kg	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					

Due to sample matrix interferences observed during the extraction, the normal reporting limits were not attained.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010B	1	04/22/2008 01:22	Choon Y Tian	100
00111	Moisture	SM20 2540 G	1	04/17/2008 15:34	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	04/24/2008 22:29	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/24/2008 08:15	Kerrie A Freeburn	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/16/2008 21:05	Annamaria Stipkovits	1



Analysis Report

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Lancaster Laboratories Sample No. TL5333137

Group No. 1086602

S2387RF4-Enviblend10-41408 Soil + 10% Enviroblend

80/20 Sample TCLP NON-VOLATILE EXTRACTION

CVX 108 Perth Amboy

Collected: 04/14/2008 by MB

Account Number: 11071

Submitted: 04/15/2008 09:40

Chevron

Reported: 05/09/2008 at 08:42

1200 State Street

Discard: 05/24/2008

Perth Amboy NJ 08861

N4E10 SDG#: RFQ95-20*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07055	Lead	7439-92-1	1.07	0.0069	mg/l	1

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 6.3-9.7 C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	04/26/2008 10:58	Joanne M Gates	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/22/2008 12:40	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	04/23/2008 19:22	James L Mertz	1

Quality Control Summary

Client Name: Chevron

Group Number: 1086602

Reported: 05/09/08 at 08:42 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 081075708002	Sample number(s): 5333118, 5333120, 5333122, 5333124, 5333126, 5333128, 5333130, 5333132, 5333134, 5333136							
Lead	N.D.	490.	ug/kg	96		90-110		
Batch number: 08108820004A	Sample number(s): 5333118, 5333120, 5333122, 5333124, 5333126, 5333128, 5333130, 5333132, 5333134, 5333136							
Moisture				100		99-101		
Batch number: 081145705002	Sample number(s): 5333119, 5333121, 5333123, 5333125, 5333127, 5333129, 5333131, 5333133, 5333135, 5333137							
Lead	N.D.	0.0069	mg/l	111		90-113		
Batch number: 08114SLC026	Sample number(s): 5333118, 5333120, 5333122, 5333124, 5333126, 5333128, 5333130, 5333132, 5333134, 5333136							
tetraethyl lead	N.D.	67.	ug/kg	97		70-130		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 081075708002	Sample number(s): 5333118, 5333120, 5333122, 5333124, 5333126, 5333128, 5333130, 5333132, 5333134, 5333136								
Lead	UNSPK: 5333118 28128 (2)	BKG: 5333118 14355 (2)	75-125	42*	20	1,410,000.	6,730,000.	131*	20
Batch number: 08108820004A	Sample number(s): 5333118, 5333120, 5333122, 5333124, 5333126, 5333128, 5333130, 5333132, 5333134, 5333136								
Moisture		BKG: P333113				7.8	7.8	0	15
Batch number: 081145705002	Sample number(s): 5333119, 5333121, 5333123, 5333125, 5333127, 5333129, 5333131, 5333133, 5333135, 5333137								
Lead	UNSPK: 5333131 -3153 (2)	BKG: 5333131 -619 (2)	75-125	1	20	271.	268.	1	20
Batch number: 08114SLC026	Sample number(s):								

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron

Group Number: 1086602

Reported: 05/09/08 at 08:42 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
	5333118, 5333120, 5333122, 5333124, 5333126, 5333128, 5333130, 5333132, 5333134, 5333136								
	UNSPK: 5333118								
tetraethyl lead	102	115	70-130	12	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Organolead in Soil by GC/MS

Batch number: 08114SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5333118	112	107	129
5333120	119	108	162*
5333122	125	130*	153*
5333124	109	109	160*
5333126	122	127*	162*
5333128	125	46*	57
5333130	68	39*	55
5333132	54	38*	59
5333134	52	45*	58
5333136	93	151*	205*
Blank	108	101	104
LCS	110	99	96
MS	119	102	150*
MSD	127	140*	144*
Limits:	47-128	55-123	49-134

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



11071/1086602/5333118-37

temp 6.3-9.7°C

No.

1 of 2

CHAIN OF CUSTODY RECORD

[illegible]

11071 / 1086602 / 5333118-37
CHAIN OF CUSTODY RECORD

temp 6.3-9.7°

CHAIN OF CUSTODY RECORD

[illegible]

Lancaster Laboratories

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared for:

Chevron
1200 State Street
Perth Amboy NJ 08861

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1088007. Samples arrived at the laboratory on Thursday, Apr 24 2008.

The project for this group is CVX 108 Perth Amboy.

The PO# for this sample group is 0015010693.

The release number for this sample group is LAVORERIO.

<u>Sample No.</u>	<u>Collected</u>	<u>Client Description</u>
5341439	4/23/2008	S2387RF4-Redoxite_10 Solid Sample SRPID: NJD081982902 CVX 108 Perth Amboy
5341440	4/23/2008	S2387RF4-Redoxite_10 Solid Sample TCLP NVE SRPID: NJD081982902 CVX 108 Perth Amboy
5341441	4/23/2008	S2197RB2-Redoxite_5 Solid Sample SRPID: NJD081982902 CVX 108 Perth Amboy
5341438	4/23/2008	S2387RF4-Redoxite_5 Solid Sample TCLP NVE SRPID: NJD081982902 CVX 108 Perth Amboy
5341443	4/23/2008	S2197RB2-Redoxite_10 Solid Sample SRPID: NJD081982902 CVX 108 Perth Amboy
5341444	4/23/2008	S2197RB2-Redoxite_10 Solid Sample TCLP NVE SRPID: NJD081982902 CVX 108 Perth Amboy
5341437	4/23/2008	S2387RF4-Redoxite_5 Solid Sample SRPID: NJD081982902 CVX 108 Perth Amboy
5341442	4/23/2008	S2197RB2-Redoxite_5 Solid Sample TCLP NVE SRPID: NJD081982902 CVX 108 Perth Amboy

METHODOLOGY

ANALYTICAL RESULTS

Prepared for:

Chevron
1200 State Street
Perth Amboy NJ 08861

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

The specified methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicle.

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1 COPY TO


URS Corporation
Data Package Group
ENTACT HOUSTON

Attn: Jerry Vorbach

Attn: Maggie Benningfield

Questions? Contact your Client Services Representative
Wendy A Kozma at (717)656-2300

Respectfully Submitted,


Robert Strocko Jr.
Manager

Chevron
 Project: CVX 108 Perth Amboy
 SDG: RFQ97

Report Date: 5/12/2008 16:15
 Submit Date: 4/24/2008 9:40

Analysis Name	Units	5341437	MDL	5341439	MDL	5341441	MDL
		S2387RF4 Result		S2387RF4 Result		S2197RB2 Result	
Lead	ug/kg	151,000,000.	126,000.	157,000,000.	122,000.	1,090,000.	2,680.
Moisture	%	22.2	0.50	19.4	0.50	8.7	0.50
tetraethyl lead	ug/kg	2,100.	430.	1,900.	410.	230.	73.

Analysis Name	Units	5341443	MDL
		S2197RB2 Result	
Lead	ug/kg	2,750,000.	2,710.
Moisture	%	9.6	0.50
tetraethyl lead	ug/kg	250.	74.

Analysis Name	Units	5341438	MDL	5341440	MDL	5341442	MDL
		S2387RF4 Result		S2387RF4 Result		S2197RB2 Result	
Lead	ug/l	2,730.	6.9	67,200.	69.0	49.5	6.9

Analysis Name	Units	5341444	MDL
		S2197RB2 Result	
Lead	ug/l	257.	6.9

CAT No.	Analysis Name	Method	Trial ID	Analysis Date/Time	Analyst	Dilution
5341437 S2387RF4-Redoxite_5 Solid Sample						
06955	Lead	SW-846 6010B	1	5/7/08 0944	Joanne M Gates	200
00111	Moisture	SM20 2540 G	1	4/25/08 1649	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	5/1/08 1430	Joseph M Gambler	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/30/08 2340	Patricia L Foreman	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/29/08 0835	Marta Rodriguez Rivera	1
5341438 S2387RF4-Redoxite_5 Solid Sample						
07055	Lead	SW-846 6010B	1	5/7/08 0503	Choon Y Tian	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/30/08 1220	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	5/1/08 2010	James L Mertz	1
5341439 S2387RF4-Redoxite_10 Solid Sample						
06955	Lead	SW-846 6010B	1	5/7/08 1005	Joanne M Gates	200
00111	Moisture	SM20 2540 G	1	4/25/08 1649	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	5/1/08 1542	Joseph M Gambler	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/30/08 2340	Patricia L Foreman	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/29/08 0835	Marta Rodriguez Rivera	1
5341440 S2387RF4-Redoxite_10 Solid Sample						
07055	Lead	SW-846 6010B	1	5/7/08 0814	Joanne M Gates	10
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/30/08 1220	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	5/1/08 2010	James L Mertz	1
5341441 S2197RB2-Redoxite_5 Solid Sample						
06955	Lead	SW-846 6010B	1	5/7/08 1008	Joanne M Gates	5
00111	Moisture	SM20 2540 G	1	4/25/08 1649	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	5/5/08 2028	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	2	5/5/08 1000	Olivia Arosemena	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/29/08 0835	Marta Rodriguez Rivera	1
5341442 S2197RB2-Redoxite_5 Solid Sample						
07055	Lead	SW-846 6010B	1	5/7/08 0533	Choon Y Tian	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/30/08 1220	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	5/1/08 2010	James L Mertz	1
5341443 S2197RB2-Redoxite_10 Solid Sample						
06955	Lead	SW-846 6010B	1	5/7/08 1012	Joanne M Gates	5
00111	Moisture	SM20 2540 G	1	4/25/08 1649	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	5/1/08 1631	Joseph M Gambler	1
00381	BNA Soil Extraction	SW-846 3550B	1	4/30/08 2340	Patricia L Foreman	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	4/29/08 0835	Marta Rodriguez Rivera	1
5341444 S2197RB2-Redoxite_10 Solid Sample						
07055	Lead	SW-846 6010B	1	5/7/08 0546	Choon Y Tian	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	4/30/08 1220	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	5/1/08 2010	James L Mertz	1

Client Name: Chevron

Group Number: 1088007

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD
Batch number: 08116820004A	Sample number(s): 5341437,5341439,5341441,5341443							
Moisture				100		99-101		
Batch number: 081195708004	Sample number(s): 5341437,5341439,5341441,5341443							
Lead	N.D.	490.	ug/kg	100		90-110		
Batch number: 08121SLD026	Sample number(s): 5341437,5341439,5341443							
tetraethyl lead	N.D.	67.	ug/kg	56*		70-130		
Batch number: 081225705002	Sample number(s): 5341438,5341440,5341442,5341444							
Lead	N.D.	6.9	ug/l	110		90-113		
Batch number: 08123SLE026	Sample number(s): 5341441							
tetraethyl lead	N.D.	67.	ug/kg	53*		70-130		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
Batch number: 08116820004A	Sample number(s): 5341437,5341439,5341441,5341443 BKG: P341778								
Moisture						19.5	21.8	11	15
Batch number: 081195708004	Sample number(s): 5341437,5341439,5341441,5341443 UNSPK: 5341437 BKG: 5341437								

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Lead -6328 (2) -6328 (2) 75-125 1 20 8,000,000. 6,000,000. 2 20

Batch number: 08121SLD026 Sample number(s): 5341437,5341439,5341443 UNSPK: 5341437

tetraethyl lead 27* 32* 70-130 7 30

Batch number: 081225705002
Sample number(s): 5341438,5341440,5341442,5341444 UNSPK: 5341438 BKG: 5341438

Lead 38 (2) 38 (2) 75-125 0 20 2,730. 2,690. 1 20

Batch number: 08123SLE026 Sample number(s): 5341441 UNSPK: 5341441

tetraethyl lead 50* 48* 70-130 3 30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Organolead in Soil by GC/MS

Batch number: 08121SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5341437	120	104	85
5341439	89	138*	91
5341443	102	142*	98
Blank	83	92	84
LCS	84	88	81
MS	117	121	86
MSD	84	145*	97
Limits:	47-128	55-123	49-134

Analysis Name: Organolead in Soil by GC/MS

Batch number: 08123SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5341441	87	109	98
Blank	98	99	108

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

LCS	94	100	103
MS	90	115	103
MSD	90	106	96
Limits:	47-128	55-123	49-134

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

QC Comment

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

5341437 S2387RF4-Redoxite_5 Solid Sample

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS

The QC limits for tetraethyl lead are advisory only until sufficient data points can be obtained to calculate statistical limits.

Due to sample matrix interferences observed during the extraction, the normal reporting limits were not attained.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

5341438 S2387RF4-Redoxite_5 Solid Sample

State of New Jersey Lab Certification No. PA011

The pH of the extraction fluid used for the leachate preparation was 4.93.

The final pH of the leachate was 10.03.

The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

5341439 S2387RF4-Redoxite_10 Solid Sample

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS
The QC limits for tetraethyl lead are advisory only until sufficient data points can be obtained to calculate statistical limits.

Due to sample matrix interferences observed during the extraction, the normal reporting limits were not attained.

State of New Jersey Lab Certification No. PA011
The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

5341440 S2387RF4-Redoxite_10 Solid Sample

State of New Jersey Lab Certification No. PA011
The pH of the extraction fluid used for the leachate preparation was 4.93.
The final pH of the leachate was 11.35.
The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

see Table 1⁴ in EPA Code of Federal Regulations 40 CFR 261.24.

5341441 S2197RB2-Redoxite_5 Solid Sample

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS
The QC limits for tetraethyl lead are advisory only until sufficient data points can be obtained to calculate statistical limits.

State of New Jersey Lab Certification No. PA011
The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

5341442 S2197RB2-Redoxite_5 Solid Sample

State of New Jersey Lab Certification No. PA011
The pH of the extraction fluid used for the leachate preparation was 4.93.
The final pH of the leachate was 7.02.
The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

see Table 1⁴ in EPA Code of Federal Regulations 40 CFR 261.24.

5341443 S2197RB2-Redoxite_10 Solid Sample

00111 Moisture

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

04221 Organolead in Soil by GC/MS
The QC limits for tetraethyl lead are advisory only until sufficient data points can be obtained to calculate statistical limits.

State of New Jersey Lab Certification No. PA011
The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

5341444 S2197RB2-Redoxite_10 Solid Sample

State of New Jersey Lab Certification No. PA011
The pH of the extraction fluid used for the leachate preparation was 2.86.
The final pH of the leachate was 5.31.
The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

see Table 1⁴ in EPA Code of Federal Regulations 40 CFR 261.24.

ANALYTICAL RESULTS

Prepared for:

Chevron
1200 State Street
Perth Amboy NJ 08861

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425**SAMPLE GROUP**

The sample group for this submittal is 1088007. Samples arrived at the laboratory on Thursday, April 24, 2008. The PO# for this group is 0015010693 and the release number is LAVORERIO.

Client DescriptionS2387RF4-Redoxite_5 Solid Sample
S2387RF4-Redoxite_5 Solid Sample
S2387RF4-Redoxite_10 Solid Sample
S2387RF4-Redoxite_10 Solid Sample
S2197RB2-Redoxite_5 Solid Sample
S2197RB2-Redoxite_5 Solid Sample
S2197RB2-Redoxite_10 Solid Sample
S2197RB2-Redoxite_10 Solid Sample**Lancaster Labs Number**5341437
5341438
5341439
5341440
5341441
5341442
5341443
5341444**METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.


ELECTRONIC URS Corporation
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Attn: Jerry Vorbach

Attn: Maggie Benningfield

Questions? Contact your Client Services Representative
Wendy A Kozma at (717) 656-2300

Respectfully Submitted,


Robert Strocko Jr.
Manager

Lancaster Laboratories Sample No. SW5341437
Group No. 1088007
S2387RF4-Redoxite_5 Solid Sample
SRPID: NJD081982902
CVX 108 Perth Amboy

Collected: 04/23/2008 by MB

Account Number: 11071

Submitted: 04/24/2008 09:40

Chevron

Reported: 05/12/2008 at 16:15

1200 State Street

Discard: 07/12/2008

Perth Amboy NJ 08861

874-5 SDG#: RFQ97-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06955	Lead	7439-92-1	151,000,000.	126,000.	ug/kg	200
00111	Moisture	n.a.	22.2	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	2,100.	430.	ug/kg	1
	The QC limits for tetraethyl lead are advisory only until sufficient data points can be obtained to calculate statistical limits.					

Due to sample matrix interferences observed during the extraction, the normal reporting limits were not attained.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010B	1	05/07/2008 09:44	Joanne M Gates	200
00111	Moisture	SM20 2540 G	1	04/25/2008 16:49	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	05/01/2008 14:30	Joseph M Gambler	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/30/2008 23:40	Patricia L Foreman	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/29/2008 08:35	Marta Rodriguez Rivera	1



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. TL5341438

Group No. 1088007

S2387RF4-Redoxite_5 Solid Sample

TCLP NVE SRPID: NJD081982902

CVX 108 Perth Amboy

Collected: 04/23/2008 by MB

Account Number: 11071

Submitted: 04/24/2008 09:40

Chevron

Reported: 05/12/2008 at 16:15

1200 State Street

Discard: 07/12/2008

Perth Amboy NJ 08861

74-5- SDG#: RFQ97-02

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Units	Dilution
				Detection		Factor
				Limit		
07055	Lead	7439-92-1	2,730.	6.9	ug/l	1

State of New Jersey Lab Certification No. PA011

The pH of the extraction fluid used for the leachate preparation was 4.93.

The final pH of the leachate was 10.03.

The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07055	Lead	SW-846 6010B	1	05/07/2008 05:03	Choon Y Tian	1
00947	TCLP Non-volatile	SW-846 1311	1	04/30/2008 12:20	Jeremy L Weaver	n.a.
	Extraction					
05705	WW/TL SW 846 ICP Digest	SW-846 3010A	1	05/01/2008 20:10	James L Mertz	1
	(tot)					

Lancaster Laboratories Sample No. SW5341439
Group No. 1088007
S2387RF4-Redoxite_10 Solid Sample
SRPID: NJD081982902
CVX 108 Perth Amboy

Collected: 04/23/2008 by MB

Account Number: 11071

Submitted: 04/24/2008 09:40

Chevron

Reported: 05/12/2008 at 16:15

1200 State Street

Discard: 07/12/2008

Perth Amboy NJ 08861

87410 SDG#: RFQ97-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06955	Lead	7439-92-1	157,000,000.	122,000.	ug/kg	200
00111	Moisture	n.a.	19.4	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	1,900.	410.	ug/kg	1
	The QC limits for tetraethyl lead are advisory only until sufficient data points can be obtained to calculate statistical limits.					

Due to sample matrix interferences observed during the extraction, the normal reporting limits were not attained.

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06955	Lead	SW-846 6010B	1	05/07/2008 10:05	Joanne M Gates	200
00111	Moisture	SM20 2540 G	1	04/25/2008 16:49	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	05/01/2008 15:42	Joseph M Gambler	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/30/2008 23:40	Patricia L Foreman	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/29/2008 08:35	Marta Rodriguez Rivera	1



Analysis Report

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Lancaster Laboratories Sample No. TL5341440

Group No. 1088007

S2387RF4-Redoxite_10 Solid Sample

TCLP NVE SRPID: NJD081982902

CVX 108 Perth Amboy

Collected: 04/23/2008 by MB

Account Number: 11071

Submitted: 04/24/2008 09:40

Chevron

Reported: 05/12/2008 at 16:15

1200 State Street

Discard: 07/12/2008

Perth Amboy NJ 08861

74-10 SDG#: RFQ97-04

CAT			As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Units	Dilution
				Detection		Factor
				Limit		
07055	Lead	7439-92-1	67,200.	69.0	ug/l	10

State of New Jersey Lab Certification No. PA011

The pH of the extraction fluid used for the leachate preparation was 4.93.

The final pH of the leachate was 11.35.

The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
07055	Lead	SW-846 6010B	1	05/07/2008 08:14	Joanne M Gates	10
00947	TCLP Non-volatile	SW-846 1311	1	04/30/2008 12:20	Jeremy L Weaver	n.a.
	Extraction					
05705	WW/TL SW 846 ICP Digest	SW-846 3010A	1	05/01/2008 20:10	James L Mertz	1
	(tot)					



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. SW5341441

Group No. 1088007

S2197RB2-Redoxite_5 Solid Sample

SRPID: NJD081982902

CVX 108 Perth Amboy

Collected: 04/23/2008 by MB

Account Number: 11071

Submitted: 04/24/2008 09:40

Reported: 05/12/2008 at 16:15

Discard: 07/12/2008

Chevron

1200 State Street

Perth Amboy NJ 08861

972-5 SDG#: RFQ97-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06955	Lead	7439-92-1	1,090,000.	2,680.	ug/kg	5
00111	Moisture	n.a.	8.7	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	230.	73.	ug/kg	1
	The QC limits for tetraethyl lead are advisory only until sufficient data points can be obtained to calculate statistical limits.					

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
06955	Lead	SW-846 6010B	1	05/07/2008 10:08	Joanne M Gates	5
00111	Moisture	SM20 2540 G	1	04/25/2008 16:49	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	05/05/2008 20:28	Gregory J Drahovsky	1
00381	BNA Soil Extraction	SW-846 3550B	2	05/05/2008 10:00	Olivia Arosemena	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/29/2008 08:35	Marta Rodriguez Rivera	1



Analysis Report

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Lancaster Laboratories Sample No. TL5341442

Group No. 1088007

S2197RB2-Redoxite_5 Solid Sample

TCLP NVE SRPID: NJD081982902

CVX 108 Perth Amboy

Collected: 04/23/2008 by MB

Account Number: 11071

Submitted: 04/24/2008 09:40

Chevron

Reported: 05/12/2008 at 16:15

1200 State Street

Discard: 07/12/2008

Perth Amboy NJ 08861

72-5- SDG#: RFQ97-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	49.5		6.9	ug/l	1

State of New Jersey Lab Certification No. PA011

The pH of the extraction fluid used for the leachate preparation was 4.93.

The final pH of the leachate was 7.02.

The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
07055	Lead	SW-846 6010B	1	05/07/2008	05:33	Choon Y Tian	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/30/2008	12:20	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	05/01/2008	20:10	James L Mertz	1



Analysis Report

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Lancaster Laboratories Sample No. SW5341443

Group No. 1088007

S2197RB2-Redoxite_10 Solid Sample

SRPID: NJD081982902

CVX 108 Perth Amboy

Collected: 04/23/2008 by MB

Account Number: 11071

Submitted: 04/24/2008 09:40

Reported: 05/12/2008 at 16:15

Discard: 07/12/2008

Chevron

1200 State Street

Perth Amboy NJ 08861

97210 SDG#: RFQ97-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06955	Lead	7439-92-1	2,750,000.	2,710.	ug/kg	5
00111	Moisture	n.a.	9.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
04221	Organolead in Soil by GC/MS					
04223	tetraethyl lead	78-00-2	250.	74.	ug/kg	1
	The QC limits for tetraethyl lead are advisory only until sufficient data points can be obtained to calculate statistical limits.					

State of New Jersey Lab Certification No. PA011

The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
06955	Lead	SW-846 6010B	1	05/07/2008 10:12	Joanne M Gates	5
00111	Moisture	SM20 2540 G	1	04/25/2008 16:49	Scott W Freisher	1
04221	Organolead in Soil by GC/MS	SW-846 8270C	1	05/01/2008 16:31	Joseph M Gambler	1
00381	BNA Soil Extraction	SW-846 3550B	1	04/30/2008 23:40	Patricia L Foreman	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	04/29/2008 08:35	Marta Rodriguez Rivera	1



Analysis Report

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Lancaster Laboratories Sample No. TL5341444

Group No. 1088007

S2197RB2-Redoxite_10 Solid Sample

TCLP NVE SRPID: NJD081982902

CVX 108 Perth Amboy

Collected: 04/23/2008 by MB

Account Number: 11071

Submitted: 04/24/2008 09:40

Chevron

Reported: 05/12/2008 at 16:15

1200 State Street

Discard: 07/12/2008

Perth Amboy NJ 08861

97-10 SDG#: RFQ97-08*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07055	Lead	7439-92-1	257.		6.9	ug/l	1

State of New Jersey Lab Certification No. PA011

The pH of the extraction fluid used for the leachate preparation was 2.86.

The final pH of the leachate was 5.31.

The temperature of the sample(s) upon receipt at the lab was 16.9-17.1C.

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07055	Lead	SW-846 6010B	1	05/07/2008 05:46	Choon Y Tian	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	04/30/2008 12:20	Jeremy L Weaver	n.a.
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	05/01/2008 20:10	James L Mertz	1

Quality Control Summary

Client Name: Chevron

Group Number: 1088007

Reported: 05/12/08 at 04:15 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08116820004A Moisture	Sample number(s): 5341437, 5341439, 5341441, 5341443			100		99-101		
Batch number: 081195708004 Lead	Sample number(s): 5341437, 5341439, 5341441, 5341443			N.D.	490. ug/kg	100	90-110	
Batch number: 08121SLD026 tetraethyl lead	Sample number(s): 5341437, 5341439, 5341443			N.D.	67. ug/kg	56*	70-130	
Batch number: 081225705002 Lead	Sample number(s): 5341438, 5341440, 5341442, 5341444			N.D.	6.9 ug/l	110	90-113	
Batch number: 08123SLE026 tetraethyl lead	Sample number(s): 5341441			N.D.	67. ug/kg	53*	70-130	

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 08116820004A Moisture	Sample number(s): 5341437, 5341439, 5341441, 5341443					19.5	BKG: P341778 21.8	11	15
Batch number: 081195708004 Lead	Sample number(s): 5341437, 5341439, 5341441, 5341443			-6328 (2)	6670 (2)	75-125	1 20 118,000,00 0.	116,000,00 2 0.	20
Batch number: 08121SLD026 tetraethyl lead	Sample number(s): 5341437, 5341439, 5341443			27*	32*	70-130	7 30	UNSPK: 5341437	
Batch number: 081225705002 Lead	Sample number(s): 5341438, 5341440, 5341442, 5341444			38 (2)	35 (2)	75-125	0 20 2,730.	2,690.	1 20
Batch number: 08123SLE026 tetraethyl lead	Sample number(s): 5341441			50*	48*	70-130	3 30	UNSPK: 5341441	

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron
Reported: 05/12/08 at 04:15 PM

Group Number: 1088007

Surrogate Quality Control

Analysis Name: Organolead in Soil by GC/MS
Batch number: 08121SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5341437	120	104	85
5341439	89	138*	91
5341443	102	142*	98
Blank	83	92	84
LCS	84	88	81
MS	117	121	86
MSD	84	145*	97
Limits:	47-128	55-123	49-134

Analysis Name: Organolead in Soil by GC/MS
Batch number: 08123SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5341441	87	109	98
Blank	98	99	108
LCS	94	100	103
MS	90	115	103
MSD	90	106	96
Limits:	47-128	55-123	49-134

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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